

Utility Occupancy Application and Permit

Permit # 1617 (16)

Applicant Information:

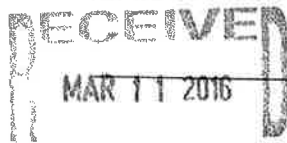
DAKOTA ACCESS LLC of Houston, Tx 77002
Owner of Facility City State

1300 MAIN STREET
Mailing Address Telephone Number

Clare Cunningham SR. Permits Agent 802-989-2489
Applicant's Agent Title Telephone Number

Mercer County Road # 11 ST. SW Direction N S E W _____ miles from city of _____
 or 7600' miles from Junction Mercer County Road # CR 7
 Section(s) 30 & 31 Township 144 Range 90

Type of Facility:



30" CRUDE OIL PIPELINE
Description of proposed facility (include drawings/sketches/staking sheet)

OPEN CUT
Description of proposed method of installation

<small>BY:</small>	<small>Size of Facility</small>	<small>Number of Cables</small>	<small>Length of Down Guys</small>
	<u>1440 PSIG</u>	<u>N/A</u>	<u>N/A</u>
	<small>Pipeline Pressure</small>	<small>Size of Casing</small>	<small>Length of Casing</small>
	<small>Location of Pole(s)</small>	<small>Location of Appurtenances (Vents, Manholes, Valves, etc.)</small>	<small>Location-Others</small>

Terms & Conditions: Installation and method of said facilities on highway right of way shall be subject to the following terms & conditions; and the installation & maintenance provisions, attached hereto and made a part hereof.

- A. Installation of said facility shall be done in a manner satisfactory to the Mercer County Road Superintendent.
- B. Applicant shall notify the Mercer County Road Superintendent 48 hours prior to maintaining, relocating, or removal of said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the Mercer County Road Superintendent.
- C. Mercer County shall not be liable for damage to said facilities resulting from reconstruction or maintenance of the highway. Applicant shall hold Mercer County and any of its employees harmless for injury to persons or damage to property resulting from the location of said facilities on highway right of way.
- D. Applicant shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way, which may be damaged as a result of the installation & maintenance of said facilities on highway right of way.
- E. Applicant shall remove said facilities from highway right of way or shall relocate or adjust said facilities at its sole cost & expense when they are requested to do so by Mercer County, which shall be completed as soon thereafter as is practicable.
- F. Containment of Weeds until permanent grass has been established.
- G. Additional installation & maintenance requirements are as follows (if applicable):
- H. Installation shall be completed on or before _____

2/11/16
Date

Vice President, Land and Right of Way
Applicant Signature

Applicant is hereby granted permission to install & maintain the facilities applied for, as shown on the plans attached hereto & made a part hereof.

Approved by Mercer County Board of Commissioners/Road Superintendent this 6 day of April 20 16.

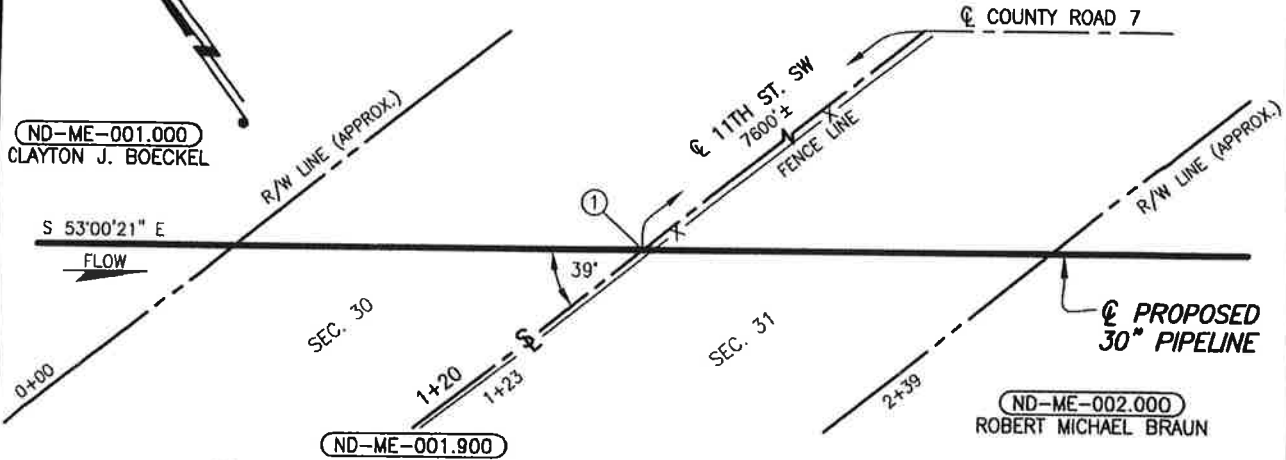
[Signature]
Road Superintendent

[Signature]
Chairman, Mercer County Commission

ND-ME-001,900 11 ST SW

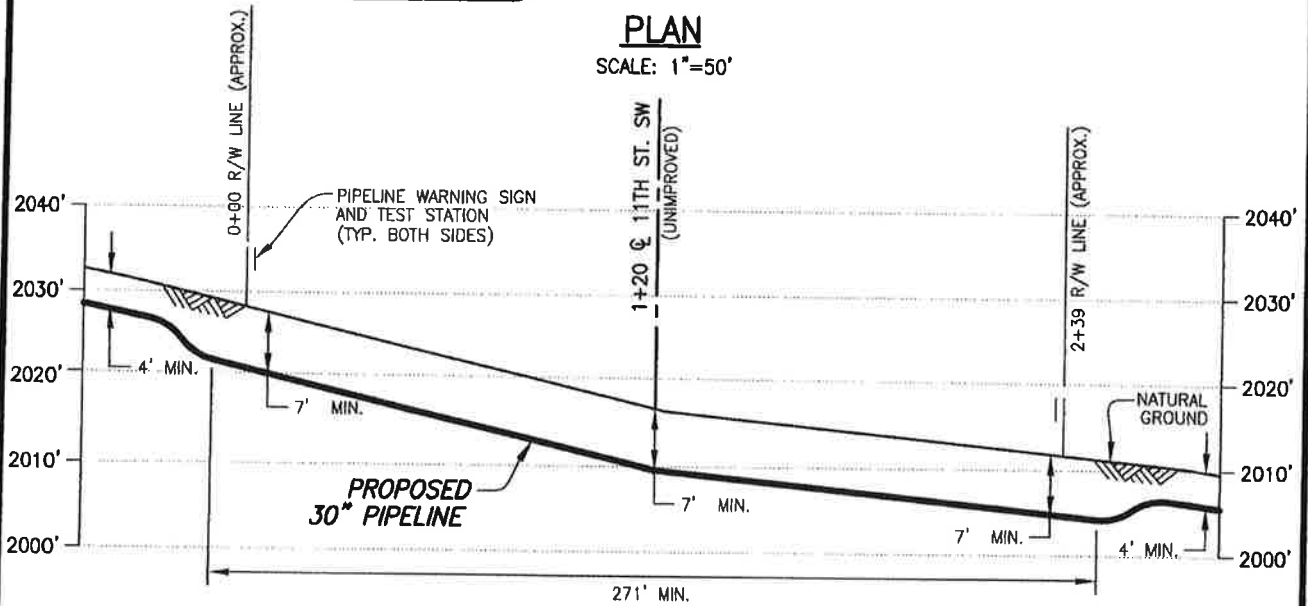
MERCER COUNTY, NORTH DAKOTA

SECTIONS 30 & 31, TOWNSHIP 144 NORTH, RANGE 90 WEST



PLAN

SCALE: 1"=50'



PROFILE

SCALE: 1"=50' HORIZ.
1"=20' VERT.

① X=2352064.54
Y=17183706.87

DATUM:

ALL ELEVATIONS DERIVED FROM GPS OBSERVATIONS (GEOID 2012, NAVD 88) BEARINGS BASED ON UTM ZONE 13 NORTH AMERICAN DATUM 1983. U.S. SURVEY FEET

T.B.M.: ☉ 11TH ST. SW
AT STA. 1+20, ELEV. 2016.76'

PIPE SPECIFICATIONS

PIPE 30" O.D. x 0.625" W.T.
API 5LX-70 HSAW
COATING: 14-16 MILS FBE
SERVICE: CRUDE OIL
INSTALLATION: OPEN CUT
MIN. TEST PRESSURE: 1,800 PSIG
MOP: 1,440 PSIG
MIN. YIELD STRENGTH: 70,000 PSI

REV.	DATE	BY	DESCRIPTION	CHK.
A	03/02/16	ARC	ISSUED FOR USE/PERMIT	RC

PROJECT NO. 10395700



WOOD GROUP MUSTANG, INC.

NORTH DAKOTA REGISTERED ENGINEERING FIRM 627C



DAKOTA ACCESS, LLC

PROPOSED 30" DAPL PIPELINE CROSSING

11TH ST. SW

MERCER COUNTY

NORTH DAKOTA

DRAWN BY: ARC

DATE: 03/02/16

DWG. NO.

REV.

CHECKED BY: RC

DATE: 03/02/16

SCALE: AS SHOWN

APP.:

ND-ME-001.900

A

FILE: R:\Projects\103957\DISCIPLINE\CAD\DRAWINGS\93-PERMIT\NORTH DAKOTA\MERCER COUNTY\103957-PB-ND-ME-001.900.dwg PLOT DATE: 3/3/2016 BY: MADAMBA, JOEY

Utility Occupancy Application and Permit

Permit # 1618 (16)

Applicant Information:

DAKOTA ACCESS LLC of Houston, Tx 77002
Owner of Facility City State

1300 MAIN STREET
Mailing Address

Claire Cunningham Sr. Permits Agent 802-989-2489
Applicant's Agent Title Telephone Number

Mercer County Road # 77002 SW Direction (N) S E W _____ miles from city of _____
 or 3410' miles from Junction Mercer County Road # CR 7
 Section(s) 31 & 32 Township 144 Range 90

Type of Facility:

30" CRUDE OIL PIPELINE
Description of proposed facility (include drawings/sketches/staking sheet)

RECEIVED
MAR 11 2016

OPEN CUT
Description of proposed method of installation

BY: _____	Size of Facility	Number of Cables	Length of Down Guys
<u>1440 PSIG</u>	<u>W/A</u>	<u>W/A</u>	<u>W/A</u>
_____	Pipeline Pressure	Size of Casing	Length of Casing
_____	Location of Pole(s)	Location of Appurtenances <small>(Vents, Manholes, Valves, etc.)</small>	Location-Others

Terms & Conditions: Installation and method of said facilities on highway right of way shall be subject to the following terms & conditions; and the installation & maintenance provisions, attached hereto and made a part hereof.

- A. Installation of said facility shall be done in a manner satisfactory to the Mercer County Road Superintendent.
- B. Applicant shall notify the Mercer County Road Superintendent 48 hours prior to maintaining, relocating, or removal of said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the Mercer County Road Superintendent.
- C. Mercer County shall not be liable for damage to said facilities resulting from reconstruction or maintenance of the highway. Applicant shall hold Mercer County and any of its employees harmless for injury to persons or damage to property resulting from the location of said facilities on highway right of way.
- D. Applicant shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way; which may be damaged as a result of the installation & maintenance of said facilities on highway right of way.
- E. Applicant shall remove said facilities from highway right of way or shall relocate or adjust said facilities at its sole cost & expense when they are requested to do so by Mercer County, which shall be completed as soon thereafter as is practicable.
- F. Containment of Weeds until permanent grass has been established.
- G. Additional installation & maintenance requirements are as follows (if applicable):
- H. Installation shall be completed on or before _____

2/11/16 _____
Date Applicant Signature

Vice President, Land and Right of Way

Applicant is hereby granted permission to install & maintain the facilities applied for, as shown on the plans attached hereto & made a part hereof.

Approved by Mercer County Board of Commissioners/Road Superintendent this 06 day of Apr 2016

767 Miller _____ [Signature] _____
Road Superintendent Chairman, Mercer County Commission

WD-ME-000 910

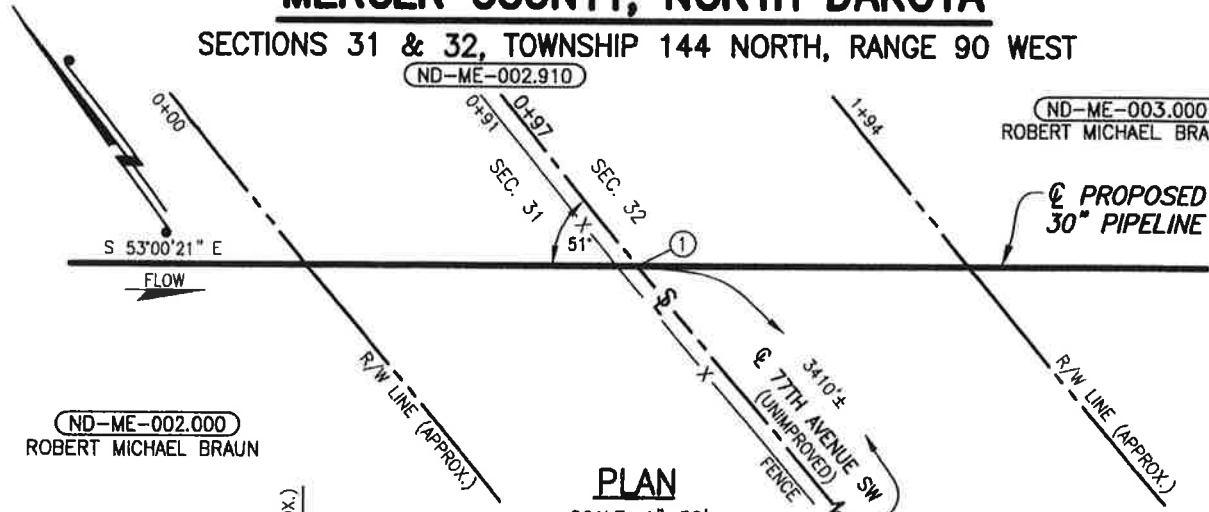
MERCER COUNTY, NORTH DAKOTA

SECTIONS 31 & 32, TOWNSHIP 144 NORTH, RANGE 90 WEST

ND-ME-002.910

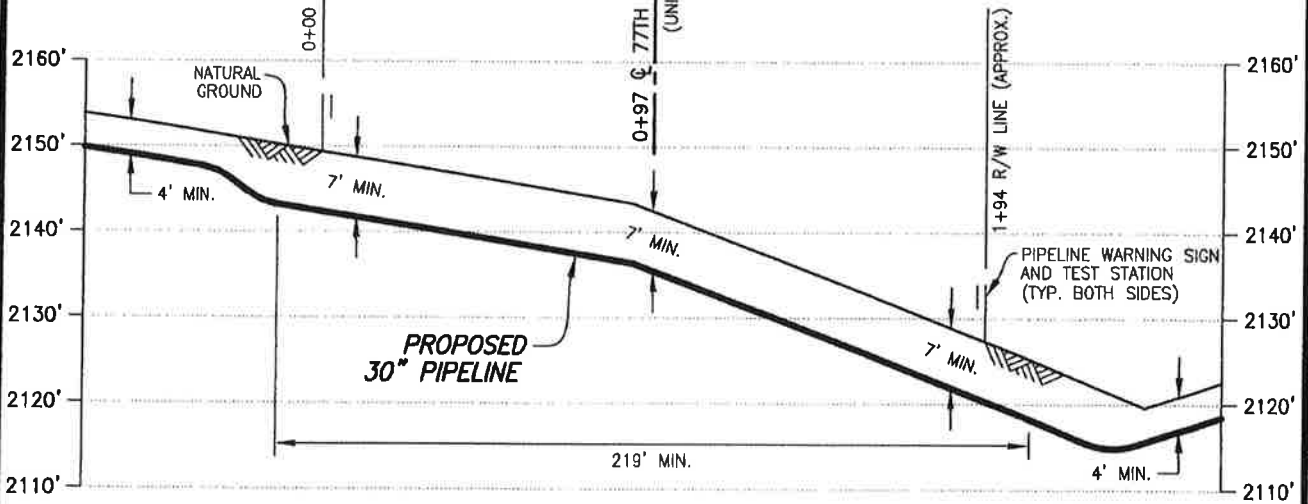
ND-ME-003.000
ROBERT MICHAEL BRAUN

ND-ME-002.000
ROBERT MICHAEL BRAUN



PLAN

SCALE: 1"=50'



PROFILE

SCALE: 1"=50' HORIZ.
1"=20' VERT.

① X=2354447.34
Y=17181911.69

DATUM:

ALL ELEVATIONS DERIVED FROM GPS OBSERVATIONS (GEOID 2012, NAVD 88) BEARINGS BASED ON UTM ZONE 13 NORTH AMERICAN DATUM 1983. U.S. SURVEY FEET

T.B.M.: 77TH AVENUE SW
AT STA. 0+97, ELEV. 2142.45'

PIPE SPECIFICATIONS

PIPE 30" O.D. x 0.625" W.T.
API 5LX-70 HSAW
COATING: 14-16 MILS FBE
SERVICE: CRUDE OIL
INSTALLATION: OPEN CUT
MIN TEST PRESSURE: 1,800 PSIG
MOP: 1,440 PSIG
MIN. YIELD STRENGTH: 70,000 PSI

REV.	DATE	BY	DESCRIPTION	CHK.
A	03/02/16	JWH	ISSUED FOR USE/PERMIT	RC

PROJECT NO. 10395700



WOOD GROUP MUSTANG, INC.
NORTH DAKOTA REGISTERED ENGINEERING FIRM 627C



DAKOTA ACCESS, LLC

PROPOSED 30" DAPL PIPELINE CROSSING

77TH AVENUE SW

MERCER COUNTY

NORTH DAKOTA

DRAWN BY: JWH

DATE: 03/02/16

DWG. NO.

REV.

CHECKED BY: RC

DATE: 03/02/16

SCALE: AS SHOWN

APP.:

ND-ME-002.910

A

FILE: R:\Projects\103957\DISCIPLINE\CAD\DRAWINGS\93-PERMIT\NORTH DAKOTA\MERCER COUNTY\103957-PB-ND-ME-002.910.dwg PLOT DATE: 3/3/2016 BY: HARBOLT, JASON

Approved
8/2/16
11/2/16
11/2/16

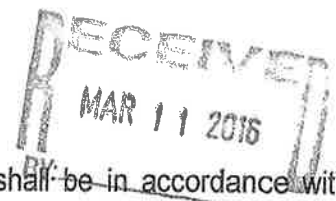
MERCER COUNTY HIGHWAY DEPARTMENT DRIVE PERMIT

Permit No. 062(16) & 063(16)

APPLICANT <u>DAKOTA ACCESS, LLC</u>		ADDRESS <u>1300 MAIN STREET</u>	
CITY <u>Houston</u>	STATE <u>TX</u>	ZIP <u>77002</u>	

The Applicant requests permission to construct 2 ^{temporary} ~~private~~-commercial drive(s) on the County roadway right of way along the N/S side of County route # 7, ^{Amount} ~~Circle One~~ approx. 1087' E, from 77 Ave SW. (CR #7) ^{location} described as follows:

(Description of proposed work on county right of way and type of business served)
Temporary accesses for construction of a 30" crude oil pipeline.



Applicant agrees that any permit issued and any entrance built or work done shall be in accordance with plans attached hereto and made a part hereof, and Permit Specifications printed on the reverse side of this sheet. If the applicant fails to construct the drive to the specified dimensions, including the proper culvert length and inslopes, the Department of Transportation, hereinafter referred to as NDDOT, will either cancel this permit and remove the drive or make the necessary corrections and the Applicant will reimburse NDDOT for such work.

To be signed by Owner; Partner; Corp. Pres., Vice Pres., or other authorized Corp. Officer. (If signed by other authorized Corp. Officer, please attach copy of Power of Attorney or other documentation showing authority to sign.)

MERCER COUNTY HIGHWAY DEPARTMENT

APPLICANT:

NAME (TYPE OR PRINT) ROBERT ROSE
SIGNATURE [Signature]
TITLE Vice President, Land and Right of Way
DATE 1/20/16

Ken J. Miller
COUNTY ENGINEER (TYPE OR PRINT)
SIGNATURE [Signature]
DATE 06 April 16

Permit Granted: 06 April, 2016 Construction to be completed by: 5-7 2016, 20



Sketch

WD-ME-004900
CR #7

Utility Occupancy Application and Permit

Permit # 1593(16)

Applicant Information:

DAKOTA ACCESS, LLC of Houston, TX 77002
Owner of Facility City State

1300 Main STREET Telephone Number _____
Mailing Address

CLAIRE CANNINGHAM SR. Permits Agent 802.989.2489
Applicant's Agent Title Telephone Number

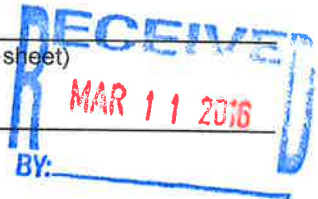
Location of Facility:

Mercer County Road # 7 Direction N S (E) W _____ miles from city of _____
APPROX. OF 1087' miles from Junction Mercer County Road # 77 AVESW (CR #7)
Section(s) 32 & 5 Township 144/143 N Range 90 W

Type of Facility:

30" CRUDE OIL pipeline
Description of proposed facility (include drawings/sketches/staking sheet)

BORE
Description of proposed method of installation



Size of Facility <u>1440 PSIG</u> Pipeline Pressure	Number of Cables <u>N/A</u> Size of Casing	Length of Down Guys <u>N/A</u> Length of Casing
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Location of Pole(s)	Location of Appurtenances (Vents, Manholes, Valves, etc.)	Location-Others
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Terms & Conditions: Installation and method of said facilities on highway right of way shall be subject to the following terms & conditions; and the installation & maintenance provisions, attached hereto and made a part hereof.

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- F. Containment of Weeds until permanent grass has been established.
- G. Additional installation & maintenance requirements are as follows (if applicable):

H. Installation shall be completed on or before MAY 2017

2/11/16
Date

[Signature]
Applicant Signature

Vice President, Land and Right of Way

Applicant is hereby granted permission to install & maintain the facilities applied for, as shown on the plans attached hereto & made a part hereof.

Approved by Mercer County Board of Commissioners/Road Superintendent this 06 day of April 2016

[Signature]
Road Superintendent

[Signature]
Chairman, Mercer County Commission

ND-ME-004.900
CR #7

Longitudinal:

Location # _____
Morcer CR Highway # 7 Lanes of Traffic 2 4
Direction N S E W _____ feet from mile marker _____
Direction N S E W _____ miles from city of _____
or 1087' miles from junction highway # 77 AVE SW (CR #7)

Location # _____
_____ Highway # _____ Lanes of Traffic 2 4
Direction N S E W _____ feet from mile marker _____
Direction N S E W _____ miles from city of _____
or _____ miles from junction highway # _____

Location # _____
_____ Highway # _____ Lanes of Traffic 2 4
Direction N S E W _____ feet from mile marker _____
Direction N S E W _____ miles from city of _____
or _____ miles from junction highway # _____

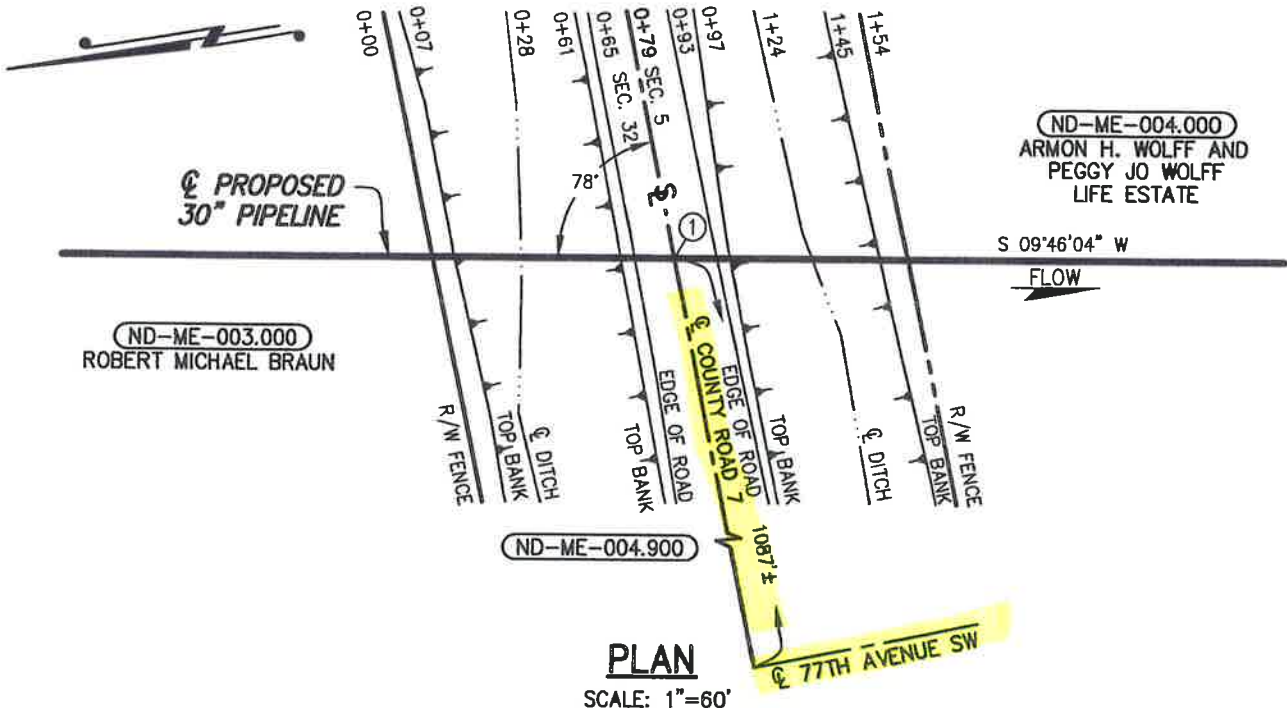
Location # _____
_____ Highway # _____ Lanes of Traffic 2 4
Direction N S E W _____ feet from mile marker _____
Direction N S E W _____ miles from city of _____
or _____ miles from junction highway # _____

Interstate Highways (applicant's description of the proposed method of ingress and egress to each work location).

ND-ME-004.900
CR # 7

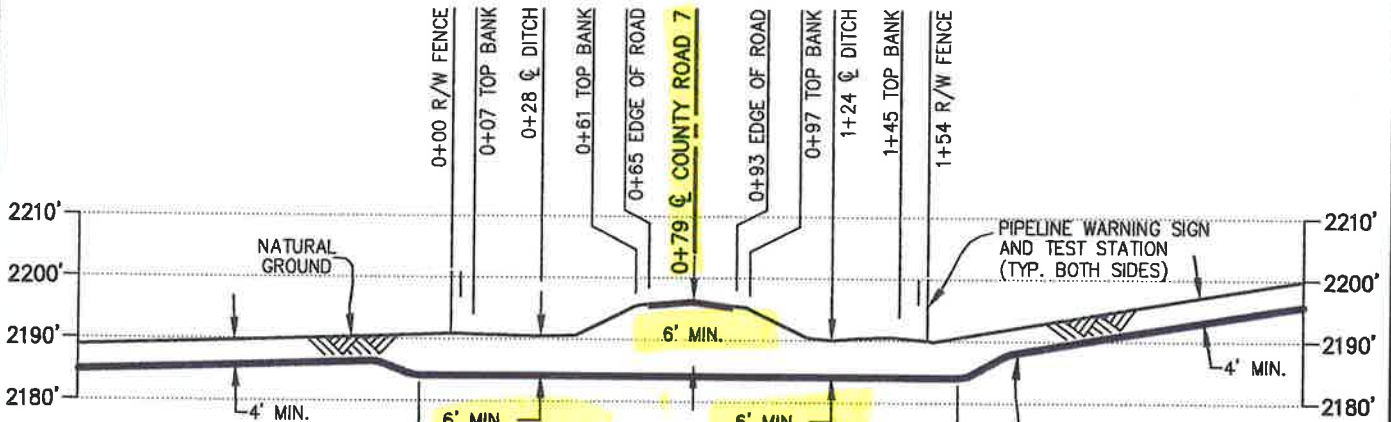
MERCER COUNTY, NORTH DAKOTA

SECTIONS 32 & 5 TOWNSHIPS 144 & 143 NORTH, RANGE 90 WEST



PLAN

SCALE: 1"=60'



PROFILE

SCALE: 1"=60' HORIZ.
1"=30' VERT.

PROPOSED 30" PIPELINE

DATUM:
ALL ELEVATIONS DERIVED FROM GPS OBSERVATIONS (GEOID 2012, NAVD 88) BEARINGS BASED ON UTM ZONE 13 NORTH AMERICAN DATUM 1983. U.S. SURVEY FEET
T.B.M.: \odot COUNTY ROAD 7 AT STA. 0+79, ELEV. 2196.36'

PIPE SPECIFICATIONS
PIPE 30" O.D. x 0.625" W.T.
API 5LX-70 HSAW
COATING: 14-16 MILS FBE
W/40 MILS ARO
SERVICE: CRUDE OIL
INSTALLATION: BORE
MIN. TEST PRESSURE: 1,800 PSIG
MOP: 1,440 PSIG
MIN. YIELD STRENGTH: 70,000 PSI

REV.	DATE	BY	DESCRIPTION	CHK.
D	10/27/15	JTM	ISSUED FOR USE/PERMIT	RC
C	09/03/15	RG	ISSUED FOR USE/PERMIT	RC
B	03/02/15	OP	ISSUED FOR USE/PERMIT	RC
A	12/22/14	JMH	ISSUED FOR REVIEW	



DAKOTA ACCESS, LLC

PROPOSED 30" DAPL PIPELINE CROSSING COUNTY ROAD 7 (12TH STREET SW)

MERCER COUNTY		NORTH DAKOTA	
DRAWN BY: OP	DATE: 12/02/14	DWG. NO.	REV.
CHECKED BY: RC	DATE: 03/02/15	ND-ME-004.900	D
SCALE: AS SHOWN	APP.:		

PROJECT NO. 10395700



WOOD GROUP MUSTANG, INC.

FILE: R:\103957\DISCIPLINE\CAD\DRAWINGS\93-PERMIT\NORTH DAKOTA\MERCER COUNTY\103957-ND-ME-004.900.dwg PLOT DATE: 10/27/2015 BY: MADAMBA, JOEY

Utility Occupancy Application and Permit

Permit # 1594 (16)

Applicant Information:

DAKOTA ACCESS LLC of Houston, Tx 77002
Owner of Facility City State

1300 MAIN STREET
Mailing Address Telephone Number

Laure Cunningham Sr. Permits Agent 802.989.2489
Applicant's Agent Title Telephone Number

Location of Facility:

Mercer County Road # 135 ST SW Direction N S E W _____ miles from city of _____

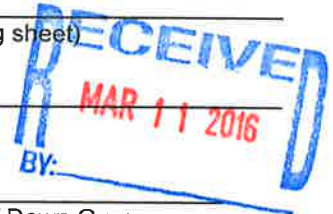
or 430' miles from Junction Mercer County Road # 7

Section(s) 5 & 8 Township 143 N Range 90W

Type of Facility:

30" CRUDE OIL PIPELINE
Description of proposed facility (include drawings/sketches/staking sheet)

OPEN CUT
Description of proposed method of installation



Size of Facility <u>1440 PSIG</u>	Number of Cables <u>N/A</u>	Length of Down Guys <u>N/A</u>
Pipeline Pressure	Size of Casing	Length of Casing

Location of Pole(s)	Location of Appurtenances (Vents, Manholes, Valves, etc.)	Location-Others
---------------------	--	-----------------

Terms & Conditions: Installation and method of said facilities on highway right of way shall be subject to the following terms & conditions; and the installation & maintenance provisions, attached hereto and made a part hereof.

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- B. Applicant shall notify the Mercer County Road Superintendent 48 hours prior to maintaining, relocating, or removal of said facilities.
- C. All disturbed areas shall be restored to their original condition in a manner satisfactory to the Mercer County Road Superintendent.
- D. Mercer County shall not be liable for damage to said facilities resulting from reconstruction or maintenance of the highway. Applicant shall hold Mercer County and any of its employees harmless for injury to persons or damage to property resulting from the location of said facilities on highway right of way.
- E. Applicant shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way; which may be damaged as a result of the installation & maintenance of said facilities on highway right of way.
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- G. Containment of Weeds until permanent grass has been established.
- H. Additional installation & maintenance requirements are as follows (if applicable):

H. Installation shall be completed on or before MAY 2017

2/11/16
Date

[Signature]
Vice President, Land and Right of Way
Applicant Signature

Applicant is hereby granted permission to install & maintain the facilities applied for, as shown on the plans attached hereto & made a part hereof.

Approved by Mercer County Board of Commissioners/Road Superintendent this 06 day of April 2016.

[Signature]
Road Superintendent

[Signature]
Chairman, Mercer County Commission

ND-ME-004.910
13 St SW

Longitudinal:

Location # _____
Merces Co. Highway # 13 St. SW Lanes of Traffic 2 ~~4~~ Section Line
Direction N S E W _____ feet from mile marker _____
Direction N S E W _____ miles from city of _____
or 430' miles from junction highway # CR # 7

Location # _____
_____ Highway # _____ Lanes of Traffic 2 4
Direction N S E W _____ feet from mile marker _____
Direction N S E W _____ miles from city of _____
or _____ miles from junction highway # _____

Location # _____
_____ Highway # _____ Lanes of Traffic 2 4
Direction N S E W _____ feet from mile marker _____
Direction N S E W _____ miles from city of _____
or _____ miles from junction highway # _____

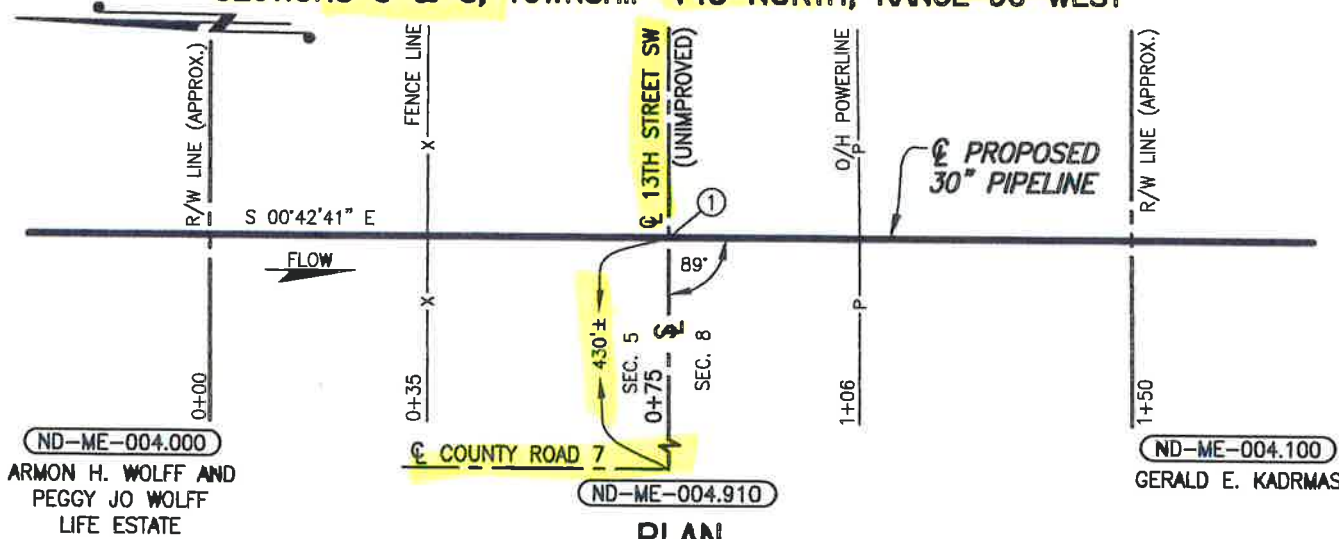
Location # _____
_____ Highway # _____ Lanes of Traffic 2 4
Direction N S E W _____ feet from mile marker _____
Direction N S E W _____ miles from city of _____
or _____ miles from junction highway # _____

Interstate Highways (applicant's description of the proposed method of ingress and egress to each work location).

ND-ME-004.910
13 St. SW

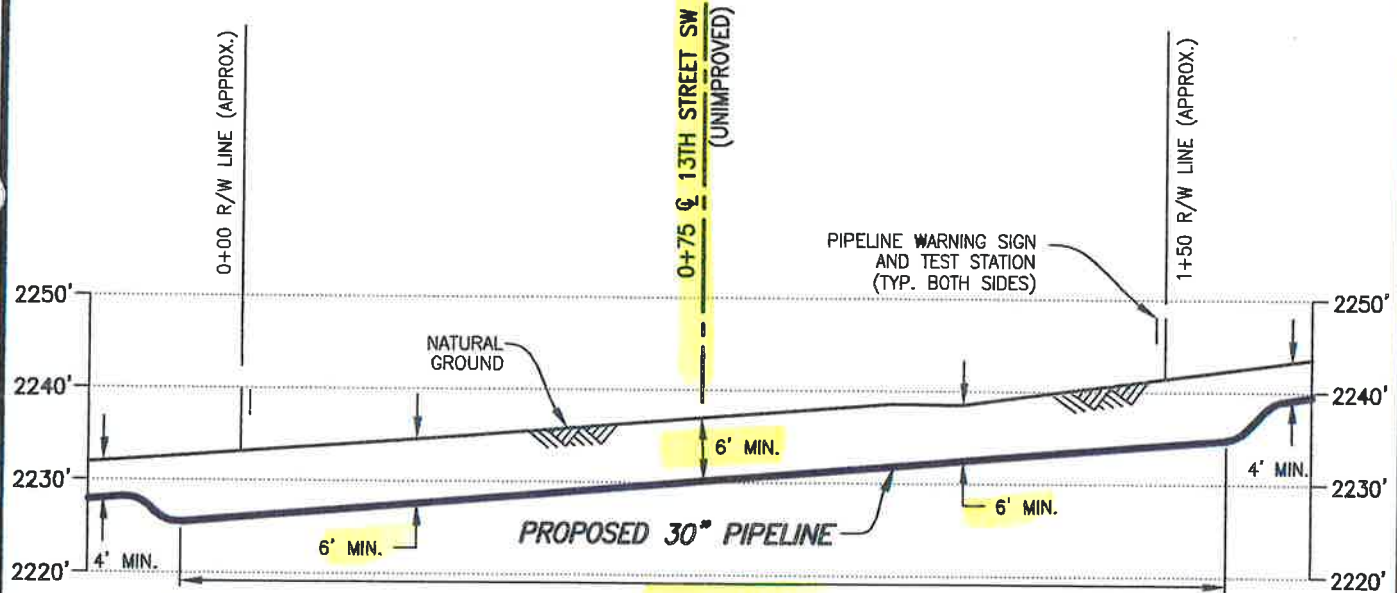
MERCER COUNTY, NORTH DAKOTA

SECTIONS 5 & 8, TOWNSHIP 143 NORTH, RANGE 90 WEST



PLAN

SCALE: 1"=30'



PROFILE

SCALE: 1"=30' HORIZ.
1"=20' VERT.

① X=2355234.96
Y=17173253.24

DATUM:

ALL ELEVATIONS DERIVED FROM GPS OBSERVATIONS (GEOID 2012, NAVD 88) BEARINGS BASED ON UTM ZONE 13 NORTH AMERICAN DATUM 1983. U.S. SURVEY FEET
T.B.M.: ϕ FENCE LINE AT STA. 0+35, ELEV. 2234.89'

PIPE SPECIFICATIONS

PIPE 30" O.D. x 0.625" W.T.
API 5LX-70 HSAW
COATING: 14-16 MILS FBE
W/40 MILS ARO
SERVICE: CRUDE OIL
INSTALLATION: BORE
MIN. TEST PRESSURE: 1,800 PSIG
MOP: 1,440 PSIG
MIN. YIELD STRENGTH: 70,000 PSI

REV.	DATE	BY	DESCRIPTION	CHK.
B	08/03/15	RG	ISSUED FOR USE/PERMIT	RC
A	03/02/15	OP	ISSUED FOR USE/PERMIT	RC

PROJECT NO. 10395700



WOOD GROUP MUSTANG, INC.
NORTH DAKOTA REGISTERED ENGINEERING FIRM 627C



DAKOTA ACCESS, LLC

PROPOSED 30" DAPL PIPELINE CROSSING 13TH STREET SW (UNIMPROVED)

MERCER COUNTY		NORTH DAKOTA	
DRAWN BY: PM	DATE: 01/30/15	DWG. NO.	REV.
CHECKED BY: RC	DATE: 03/02/15	ND-ME-004.910	B
SCALE: AS SHOWN	APP.:		

FILE: R:\V\103957\DISCIPLINE\CAD\DRAWINGS\93-PERMIT\NORTH DAKOTA\MERCER COUNTY\103957-P8-ND 04-910.dwg PLOT DATE: 9/8/2015 BY: GARCIA, REFUGIO

Utility Occupancy Application and Permit

Permit # 1619 (16)

Applicant Information:

DAKOTA ACCESS LLC of Houston TX 77002
1300 MAIN STREET
Claire Cunningham SR Permits Agent 802-989-2489

Mercer County Road # 76 ADES direction N(S)E W miles from city of
or 1610' miles from Junction Mercer County Road # 13th ST SW
Section(s) 8 & 9 Township 143 Range 90

Type of Facility:

RECEIVED 30" CRUDE OIL PIPELINE
MAR 11 2016
Description of proposed facility (include drawings/sketches/staking sheet)
OPEW CUT
Description of proposed method of installation

Size of Facility: 1440 PSIG
Number of Cables: N/A
Length of Down Guys: N/A
Pipeline Pressure:
Size of Casing:
Length of Casing:
Location of Pole(s):
Location of Appurtenances (Vents, Manholes, Valves, etc.):
Location-Others:

Terms & Conditions: Installation and method of said facilities on highway right of way shall be subject to the following terms & conditions; and the installation & maintenance provisions, attached hereto and made a part hereof.

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F. Applicant shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way; which may be damaged as a result of the installation & maintenance of said facilities on highway right of way.
G. Applicant shall remove said facilities from highway right of way or shall relocate or adjust said facilities at its sole cost & expense when they are requested to do so by Mercer County, which shall be completed as soon thereafter as is practicable.
H. Containment of Weeds until permanent grass has been established.
I. Additional installation & maintenance requirements are as follows (if applicable):
J. Installation shall be completed on or before

2/11/16 Date
Vice President, Land and Right of Way
Applicant Signature

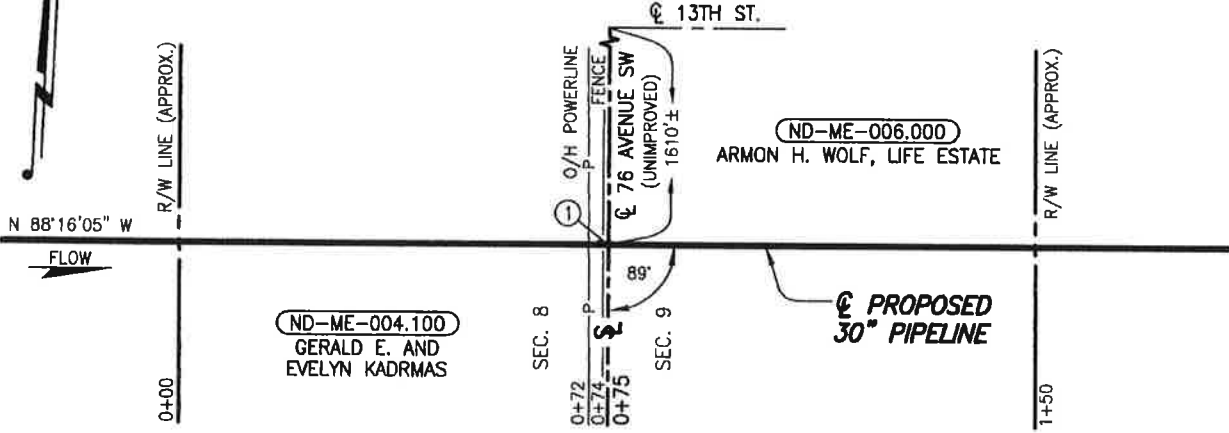
Applicant is hereby granted permission to install & maintain the facilities applied for, as shown on the plans attached hereto & made a part hereof.

Approved by Mercer County Board of Commissioners/Road Superintendent this 06 day of April 20 16
Road Superintendent
Chairman, Mercer County Commission

110-105 MU 100 000 71 0

MERCER COUNTY, NORTH DAKOTA

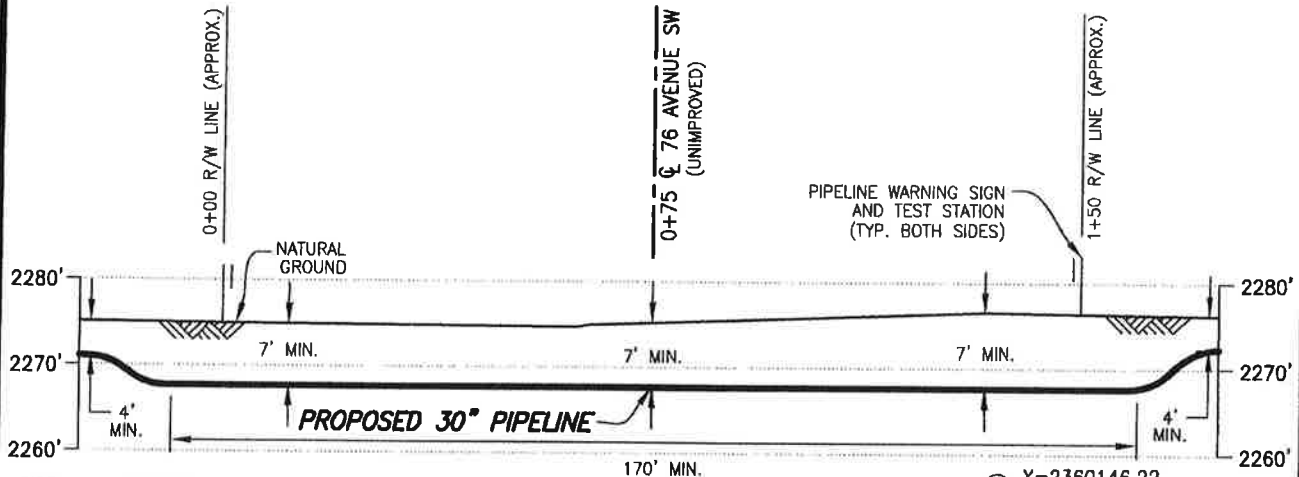
SECTIONS 8 & 9 TOWNSHIPS 143 NORTH, RANGE 90 WEST



ND-ME-004.100.900

PLAN

SCALE: 1"=30'



PROFILE

SCALE: 1"=30' HORIZ.
1"=20' VERT.

① X=2360146.22
Y=17171756.02

DATUM:
ALL ELEVATIONS DERIVED FROM GPS OBSERVATIONS (GEOID 2012, NAVD 88) BEARINGS BASED ON UTM ZONE 13 NORTH AMERICAN DATUM 1983. U.S. SURVEY FEET
T.B.M.: C 76 AVENUE SW AT STA. 0+75, ELEV. 2275.19'

PIPE SPECIFICATIONS
PIPE 30" O.D. x 0.625" W.T.
API 5LX-70 HSAW
COATING: 14-16 MILS FBE
SERVICE: CRUDE OIL
INSTALLATION: OPEN CUT
MIN TEST PRESSURE: 1,800 PSIG
MOP: 1,440 PSIG
MIN. YIELD STRENGTH: 70,000 PSI

FILE: R:\Projects\103957\DISCIPLINE\CAD\DRAWINGS\93-PERMIT\NORTH DAKOTA\MERCER COUNTY\103957-P8-ND-ME-004.100.900.dwg PLOT DATE: 3/3/2016 BY: MADAMBA, JOEY

REV.	DATE	BY	DESCRIPTION	CHK.
A	03/02/16	SMR	ISSEUD FOR USE/PERMIT	RC

PROJECT NO. **10395700**
WOOD GROUP MUSTANG, INC.
NORTH DAKOTA REGISTERED ENGINEERING FIRM 627C



PROPOSED 30" DAPL PIPELINE CROSSING 76 AVENUE SW

MERCER COUNTY		NORTH DAKOTA	
DRAWN BY: SMR	DATE: 03/02/16	DWG. NO.	REV.
CHECKED BY: RC	DATE: 03/02/16	ND-ME-004.100.900	A
SCALE: AS SHOWN	APP.:		

Utility Occupancy Application and Permit

Permit # 1620 (16)

Applicant Information:

DAKOTA ACCESS, LLC of Houston, TX 77002
Owner of Facility City State

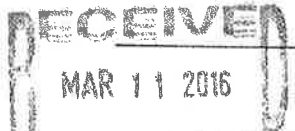
1300 MAIN STREET
Mailing Address Telephone Number

Claire Cunningham SR. Permits Agent 802.989.2489
Applicant's Agent Title Telephone Number

Mercer County Road # 75th St SW Direction N(S)E W miles from city of _____
or 1630' miles from Junction Mercer County Road # 13 St. SW
Section(s) 9 & 10 Township 143 Range 90

Type of Facility:

30" CRUDE OIL PIPELINE
Description of proposed facility (include drawings/sketches/staking sheet)



OPEN CUT
Description of proposed method of installation

BY: _____	Size of Facility	Number of Cables	Length of Down Guys
	<u>1440 PSIG</u>	<u>N/A</u>	<u>N/A</u>
	Pipeline Pressure	Size of Casing	Length of Casing
_____	Location of Pole(s)	Location of Appurtenances (Vents, Manholes, Valves, etc.)	Location-Others

Terms & Conditions: Installation and method of said facilities on highway right of way shall be subject to the following terms & conditions; and the installation & maintenance provisions, attached hereto and made a part hereof.

- A. Installation of said facility shall be done in a manner satisfactory to the Mercer County Road Superintendent.
- B. Applicant shall notify the Mercer County Road Superintendent 48 hours prior to maintaining, relocating, or removal of said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the Mercer County Road Superintendent.
- C. Mercer County shall not be liable for damage to said facilities resulting from reconstruction or maintenance of the highway. Applicant shall hold Mercer County and any of its employees harmless for injury to persons or damage to property resulting from the location of said facilities on highway right of way.
- D. Applicant shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way; which may be damaged as a result of the installation & maintenance of said facilities on highway right of way.
- E. Applicant shall remove said facilities from highway right of way or shall relocate or adjust said facilities at its sole cost & expense when they are requested to do so by Mercer County, which shall be completed as soon thereafter as is practicable.
- F. Containment of Weeds until permanent grass has been established.
- G. Additional installation & maintenance requirements are as follows (if applicable):
- H. Installation shall be completed on or before _____

2/11/16
Date

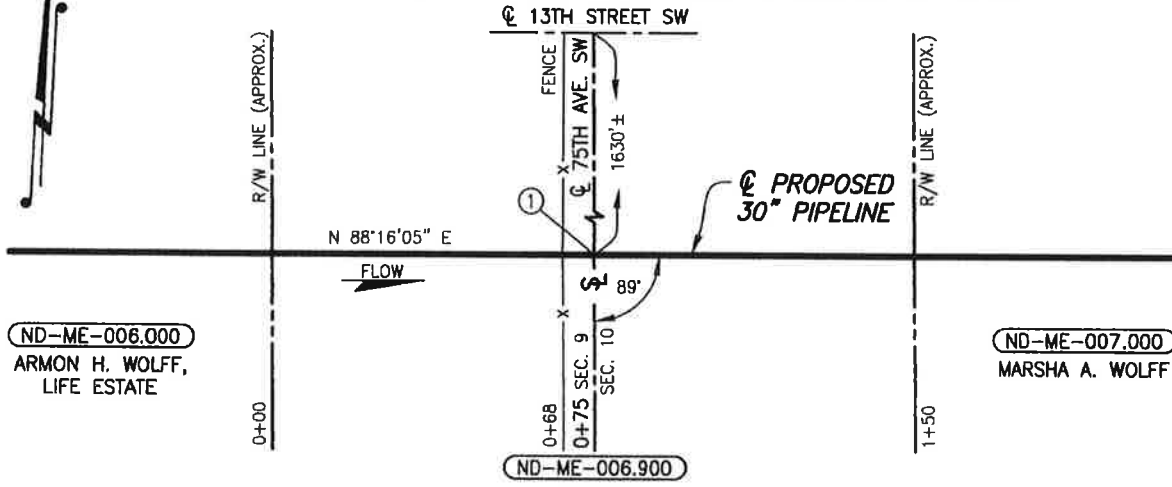
[Signature]
Vice President, Land and Right of Way
Applicant Signature

Applicant is hereby granted permission to install & maintain the facilities applied for, as shown on the plans attached hereto & made a part hereof.

Approved by Mercer County Board of Commissioners/Road Superintendent this 06 day of April 2016.
[Signature] Road Superintendent
[Signature] Chairman, Mercer County Commission

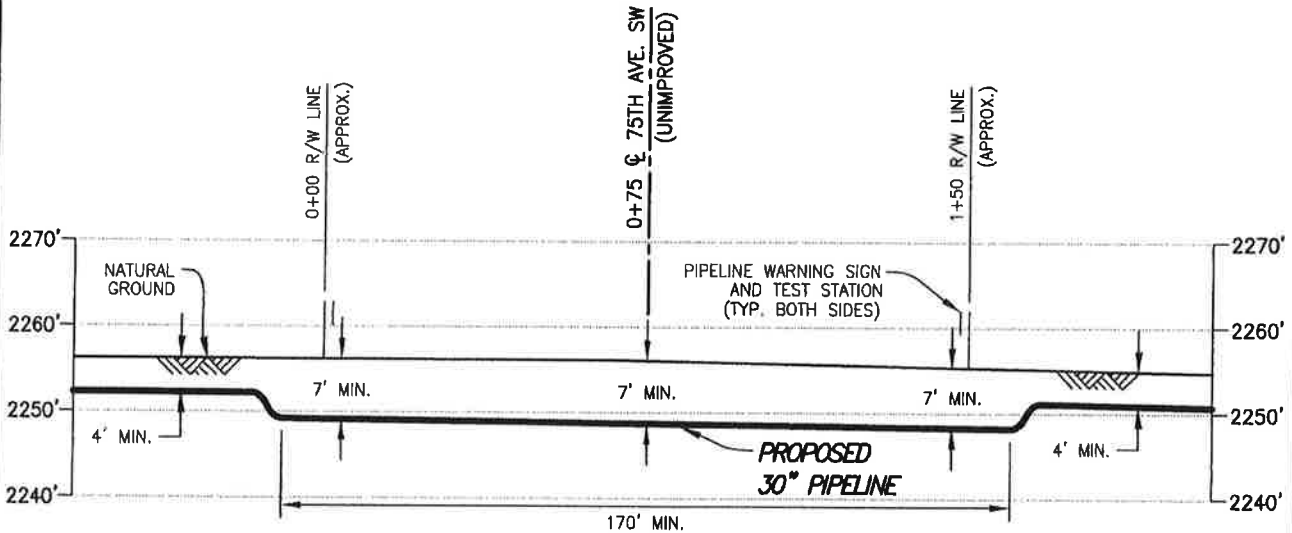
MERCER COUNTY, NORTH DAKOTA

SECTIONS 9 & 10, TOWNSHIP 143 NORTH, RANGE 90 WEST



PLAN

SCALE: 1"=40'



PROFILE

SCALE: 1"=40' HORIZ.
1"=20' VERT.

① X=2365461.98
Y=17171916.77

DATUM:

ALL ELEVATIONS DERIVED FROM GPS OBSERVATIONS (GEOID 2012, NAVD 88) BEARINGS BASED ON UTM ZONE 13 NORTH AMERICAN DATUM 1983. U.S. SURVEY FEET

T.B.M.: \odot 75TH AVENUE SW AT STA. 0+75, ELEV. 2256.05'

PIPE SPECIFICATIONS

PIPE 30" O.D. x 0.625" W.T.
API 5LX-70 HSAW
COATING: 14-16 MILS FBE
SERVICE: CRUDE OIL
INSTALLATION: OPEN CUT
MIN. TEST PRESSURE: 1,800 PSIG
MOP: 1,440 PSIG
MIN. YIELD STRENGTH: 70,000 PSI

FILE: R:\Projects\103957\DISCIPLINE\CAD\DRAWINGS\93-PERMIT\NORTH DAKOTA\MERCER COUNTY\103957-P8-ND-ME-006.900.dwg PLOT DATE: 3/3/2016 BY: MADAMBA, JOEY

REV.	DATE	BY	DESCRIPTION	CHK.
A	03/02/16	EFG	ISSUED FOR USE/PERMIT	RC

PROJECT NO. 10395700



WOOD GROUP MUSTANG, INC.
NORTH DAKOTA REGISTERED ENGINEERING FIRM 827C



DAKOTA ACCESS, LLC

PROPOSED 30" DAPL PIPELINE CROSSING 75TH AVENUE SW (UNIMPROVED)

MERCER COUNTY		NORTH DAKOTA	
DRAWN BY: EFG	DATE: 03/02/16	DWG. NO.	REV.
CHECKED BY: RC	DATE:	ND-ME-006.900	A
SCALE: AS SHOWN	APP.:		

Utility Occupancy Application and Permit

Permit # 1621 (16)

Applicant Information:

DAKOTA ACCESS LLC of Houston, Tx 77002
Owner of Facility City State

1300 MAIN STREET
Mailing Address

Carrie Cunningham SR. Permits Agent 802.989.2489
Applicant's Agent Title Telephone Number

Mercer County Road # 14 ST. SW Direction N S E (W) miles from city of _____
 or 130' miles from Junction Mercer County Road # CR115
 Section(s) 10 & 15 Township 143 Range 90

Type of Facility:

30" CRUDE OIL PIPELINE
Description of proposed facility (include drawings/sketches/staking sheet)

OPEN CUT
Description of proposed method of installation

RECEIVED
 MAR 11 2016
 BY: _____

<small>Size of Facility</small>	<small>Number of Cables</small>	<small>Length of Down Guys</small>
<u>1440 PSIG</u>	<u>N/A</u>	<u>N/A</u>
<small>Pipeline Pressure</small>	<small>Size of Casing</small>	<small>Length of Casing</small>
<small>Location of Pole(s)</small>	<small>Location of Appurtenances (Vents, Manholes, Valves, etc.)</small>	<small>Location-Others</small>

Terms & Conditions: Installation and method of said facilities on highway right of way shall be subject to the following terms & conditions; and the installation & maintenance provisions, attached hereto and made a part hereof.

- A. Installation of said facility shall be done in a manner satisfactory to the Mercer County Road Superintendent.
- B. Applicant shall notify the Mercer County Road Superintendent 48 hours prior to maintaining, relocating, or removal of said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the Mercer County Road Superintendent.
- C. Mercer County shall not be liable for damage to said facilities resulting from reconstruction or maintenance of the highway. Applicant shall hold Mercer County and any of its employees harmless for injury to persons or damage to property resulting from the location of said facilities on highway right of way.
- D. Applicant shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way; which may be damaged as a result of the installation & maintenance of said facilities on highway right of way.
- E. Applicant shall remove said facilities from highway right of way or shall relocate or adjust said facilities at its sole cost & expense when they are requested to do so by Mercer County, which shall be completed as soon thereafter as is practicable.
- F. Containment of Weeds until permanent grass has been established.
- G. Additional installation & maintenance requirements are as follows (if applicable):
- H. Installation shall be completed on or before _____

2/11/16 Vice President, Land and Right of Way
Date Applicant Signature

Applicant is hereby granted permission to install & maintain the facilities applied for, as shown on the plans attached hereto & made a part hereof.

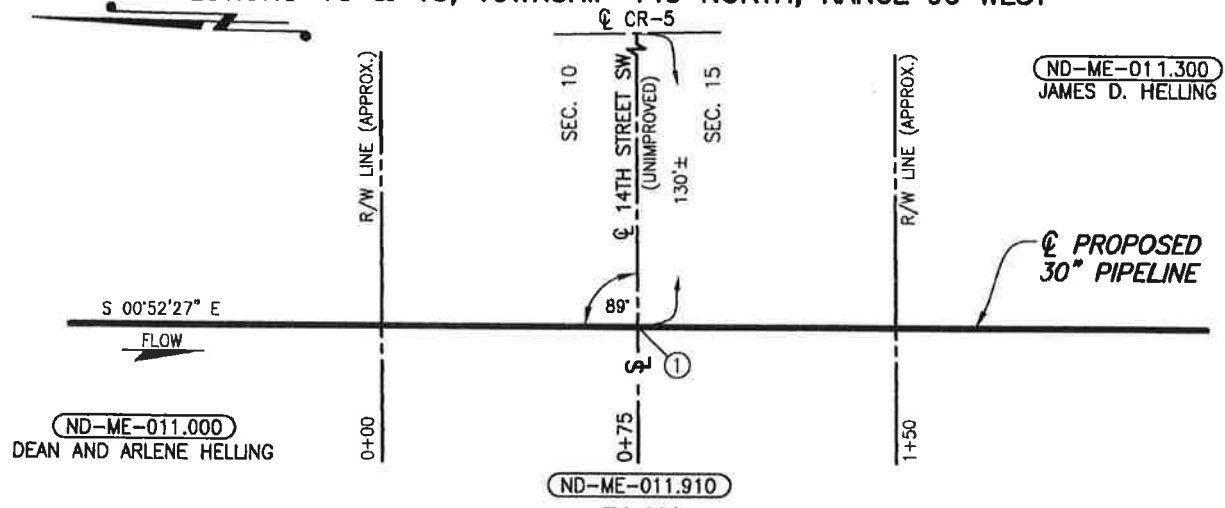
Approved by Mercer County Board of Commissioners/Road Superintendent this 06 day of April 2016.

Ken Miller
Road Superintendent Chairman, Mercer County Commission

ND-ME-011911 III 02 011

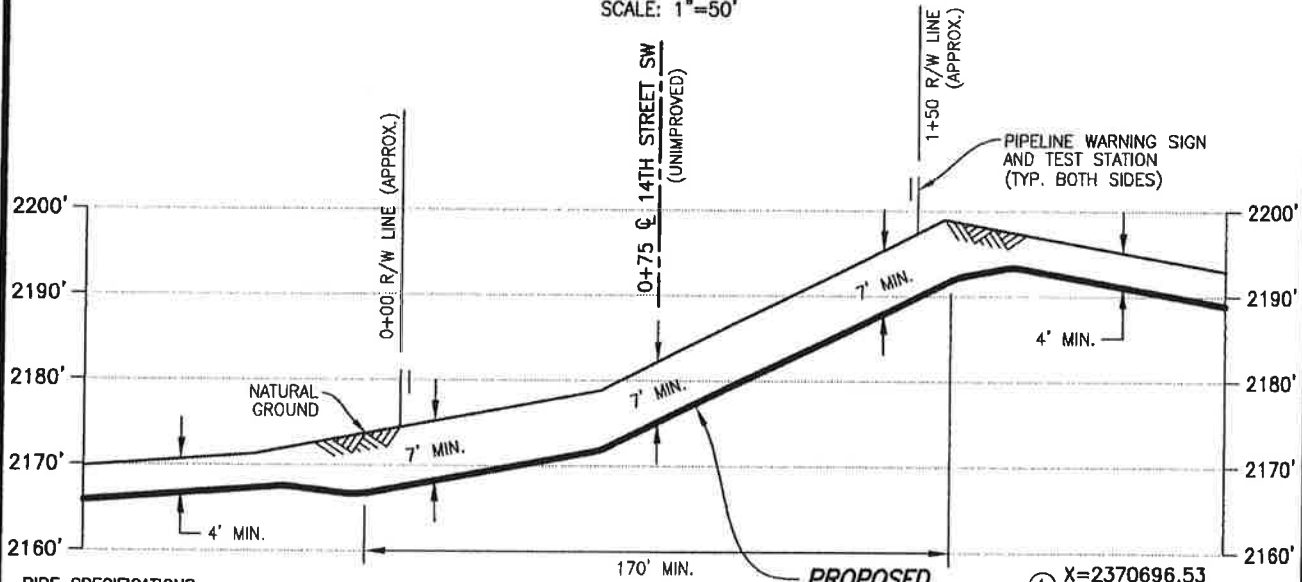
MERCER COUNTY, NORTH DAKOTA

SECTIONS 10 & 15, TOWNSHIP 143 NORTH, RANGE 90 WEST



PLAN

SCALE: 1"=50'



PROFILE

SCALE: 1"=50' HORIZ.
1"=20' VERT.

PIPE SPECIFICATIONS

PIPE 30" O.D. x 0.625" W.T.
API 5LX-70 HSAW
COATING: 14-16 MILS FBE
SERVICE: CRUDE OIL
INSTALLATION: OPEN CUT
MIN TEST PRESSURE: 1,800 PSIG
MOP: 1,440 PSIG
MIN. YIELD STRENGTH: 70,000 PSI

DATUM:

ALL ELEVATIONS DERIVED FROM GPS OBSERVATIONS (GEOID 2012, NAVD 88) BEARINGS BASED ON UTM ZONE 13 NORTH AMERICAN DATUM 1983. U.S. SURVEY FEET

T.B.M.: 14TH STREET SW AT STA. 0+75, ELEV. 2181.89'

FILE: R:\Projects\103957\DISCIPLINE\CAD\DRAWINGS\93-PERMIT\NORTH DAKOTA\MERCER COUNTY\103957-PB-ND-ME-011.910.dwg PLOT DATE: 3/3/2016 BY: RICKS, STEVEN

REV.	DATE	BY	DESCRIPTION	CHK.
A	03/02/16	JWH	ISSUED FOR USE/PERMIT	RC

PROJECT NO. 10395700



WOOD GROUP MUSTANG, INC.
NORTH DAKOTA REGISTERED ENGINEERING FIRM 627C



DAKOTA ACCESS, LLC

PROPOSED 30" DAPL PIPELINE CROSSING 14TH STREET SW

MERCER COUNTY		NORTH DAKOTA	
DRAWN BY: JWH	DATE: 03/02/16	DWG. NO.	REV.
CHECKED BY: RC	DATE: 03/02/16	ND-ME-011.910	A
SCALE: AS SHOWN	APP.:		

Utility Occupancy Application and Permit

Permit # 1595 (16)

Applicant Information:

DAKOTA ACCESS, LLC of Houston, Tx 77002
Owner of Facility City State

1300 Main STREET
Mailing Address Telephone Number

CLAIRE CANNINGHAM SR. Permits Agent 802.989.2489
Applicant's Agent Title Telephone Number

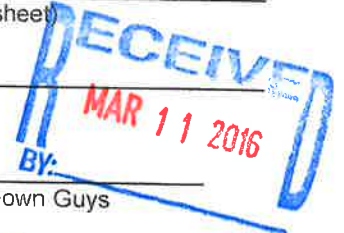
Location of Facility:

Mercer County Road # 5 Direction N S E W miles from city of _____
approx or 128' miles from Junction Mercer County Road # 74 Ave SW Section Line
 Section(s) 15 & _____ Township 143 N Range 90 W

Type of Facility:

30" CRUDE oil pipeline
Description of proposed facility (include drawings/sketches/staking sheet)

BORE
Description of proposed method of installation



Size of Facility <u>1440 PSIG</u> Pipeline Pressure	Number of Cables <u>N/A</u> Size of Casing	Length of Down Guys <u>N/A</u> Length of Casing
Location of Pole(s)	Location of Appurtenances (Vents, Manholes, Valves, etc.)	Location-Others

Terms & Conditions: Installation and method of said facilities on highway right of way shall be subject to the following terms & conditions; and the installation & maintenance provisions, attached hereto and made a part hereof.

- A. Installation of said facility shall be done in a manner satisfactory to the Mercer County Road Superintendent.
- B. Applicant shall notify the Mercer County Road Superintendent 48 hours prior to maintaining, relocating, or removal of said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the Mercer County Road Superintendent.
- C. Mercer County shall not be liable for damage to said facilities resulting from reconstruction or maintenance of the highway. Applicant shall hold Mercer County and any of its employees harmless for injury to persons or damage to property resulting from the location of said facilities on highway right of way.
- D. Applicant shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way; which may be damaged as a result of the installation & maintenance of said facilities on highway right of way.
- E. Applicant shall remove said facilities from highway right of way or shall relocate or adjust said facilities at its sole cost & expense when they are requested to do so by Mercer County, which shall be completed as soon thereafter as is practicable.
- F. Containment of Weeds until permanent grass has been established.
- G. Additional installation & maintenance requirements are as follows (if applicable):

H. Installation shall be completed on or before EBD May 2017

2/11/16 Date [Signature] Vice President, Land and Right of Way Applicant Signature

Applicant is hereby granted permission to install & maintain the facilities applied for, as shown on the plans attached hereto & made a part hereof.

Approved by Mercer County Board of Commissioners/Road Superintendent this 06 day of April 2016
[Signature] Road Superintendent [Signature] Chairman, Mercer County Commission

ND-ME-011.300.900
CR # 5

Longitudinal:

Location # _____

Merger Co Highway # 5 Lanes of Traffic 2 4

Direction N S E W _____ feet from mile marker _____

Direction N S E W _____ miles from city of _____

or Approx 128' miles from junction highway # 74 Ave SW Section Line

Location # _____

_____ Highway # _____ Lanes of Traffic 2 4

Direction N S E W _____ feet from mile marker _____

Direction N S E W _____ miles from city of _____

or _____ miles from junction highway # _____

Location # _____

_____ Highway # _____ Lanes of Traffic 2 4

Direction N S E W _____ feet from mile marker _____

Direction N S E W _____ miles from city of _____

or _____ miles from junction highway # _____

Location # _____

_____ Highway # _____ Lanes of Traffic 2 4

Direction N S E W _____ feet from mile marker _____

Direction N S E W _____ miles from city of _____

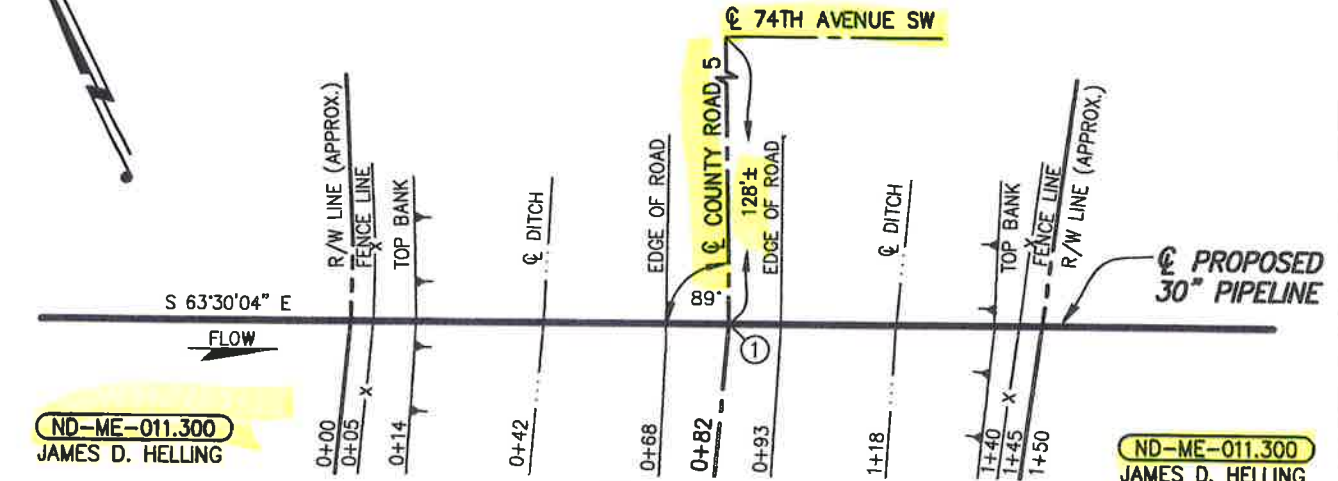
or _____ miles from junction highway # _____

Interstate Highways (applicant's description of the proposed method of ingress and egress to each work location).

ND-ME-011-300.900
CR #5

MERCER COUNTY, NORTH DAKOTA

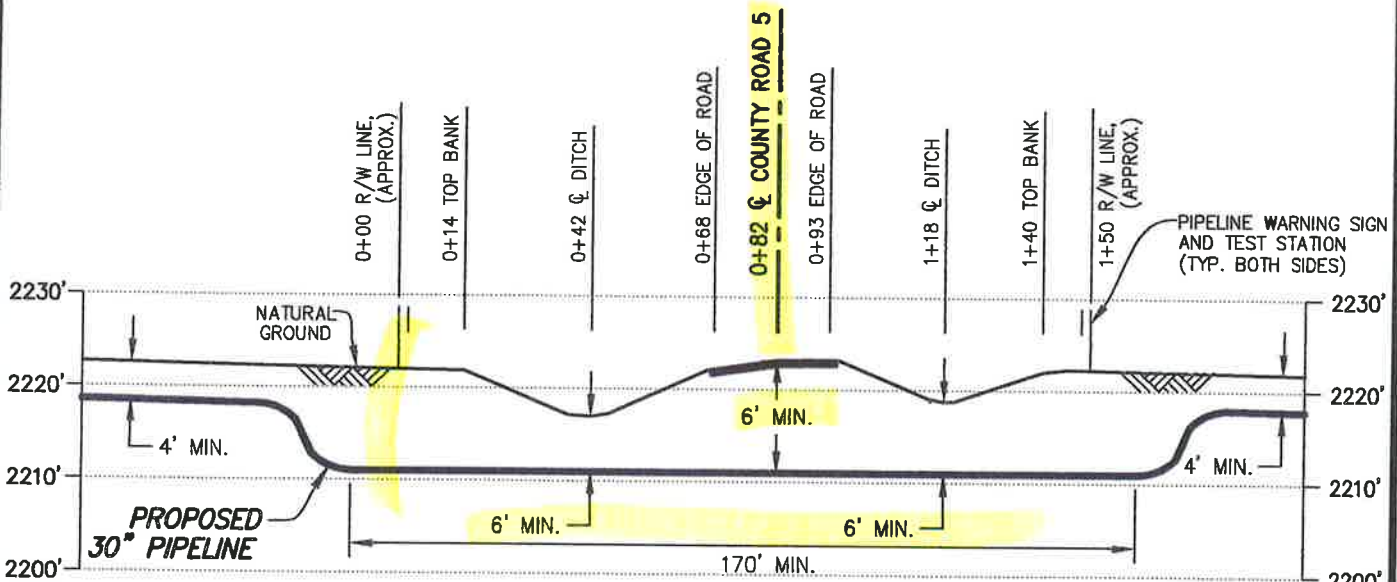
SECTION 15, TOWNSHIP 143 NORTH, RANGE 90 WEST



ND-ME-011.300.900

PLAN

SCALE: 1" = 40'



PROFILE

SCALE: 1" = 40' HORIZ.
1" = 20' VERT.

PIPE SPECIFICATIONS

PIPE 30" O.D. x 0.625" W.T.
API 5LX-70 HSAW
COATING: 14-16 MILS FBE
W/40 MILS ARO
SERVICE: CRUDE OIL
INSTALLATION: BORE
MIN. TEST PRESSURE: 1,800 PSIG
MOP: 1,440 PSIG
MIN. YIELD STRENGTH: 70,000 PSI

DATUM:

ALL ELEVATIONS DERIVED FROM GPS OBSERVATIONS (GEOID 2012, NAVD 88) BEARINGS BASED ON UTM ZONE 13 NORTH AMERICAN DATUM 1983. U.S. SURVEY FEET

T.B.M.: COUNTY ROAD 5 AT STA. 0+82, ELEV. 2223.16'

REV.	DATE	BY	DESCRIPTION	CHK.
D	10/27/15	JTM	ISSUED FOR USE/PERMIT	RC
C	09/03/15	RG	ISSUED FOR USE/PERMIT	RC
B	03/02/15	OP	ISSUED FOR USE/PERMIT	RC
A	12/22/14	JTM	ISSUED FOR REVIEW	



DAKOTA ACCESS, LLC

PROPOSED 30" DAPL PIPELINE CROSSING COUNTY ROAD 5 (74TH AVENUE SW)

MERCER COUNTY NORTH DAKOTA

PROJECT NO. 10395700



WOOD GROUP MUSTANG, INC.
NORTH DAKOTA REGISTERED ENGINEERING FIRM 627C

DRAWN BY: JTM	DATE: 12/09/14	DWG. NO.	REV.
CHECKED BY: RC	DATE: 03/02/15	ND-ME-011.300.900	D
SCALE: AS SHOWN	APP.:		

FILE: R:\F:\103957\DISCIPLINE\CAD\DRAWINGS\93-PERMIT\NORTH DAKOTA\MERCER COUNTY\103957-P8-N\CAD\11.300.900.dwg PLOT DATE: 10/27/2015 BY: MADAMBA, JOEY

APPROVED
MERCER COUNTY

MERCER COUNTY HIGHWAY DEPARTMENT DRIVE PERMIT

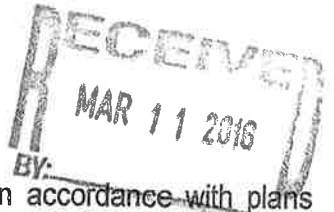
Permit No. 064(16) & 065(16)

APPLICANT <u>DAKOTA ACCESS, LLC</u>	ADDRESS <u>1300 MAIN STREET</u>	
CITY <u>Houston</u>	STATE <u>TX</u>	ZIP <u>77002</u>

The Applicant requests permission to construct 2 ^{Amount} ~~private~~ ^{Temp} ~~commercial~~ drive(s) on the County roadway right of way along the W/E ^{direction} side of County route # CR 5, approx 128' ^{location} W, from 74 Ave SW Section Line ^{Town, Highway, Junction} described as follows:

(Description of proposed work on county right of way and type of business served)

Temporary Accesses for Construction of a 30" Crude oil pipeline.



Applicant agrees that any permit issued and any entrance built or work done shall be in accordance with plans attached hereto and made a part hereof, and Permit Specifications printed on the reverse side of this sheet. If the applicant fails to construct the drive to the specified dimensions, including the proper culvert length and inslopes, the Department of Transportation, hereinafter referred to as NDDOT, will either cancel this permit and remove the drive or make the necessary corrections and the Applicant will reimburse NDDOT for such work.

To be signed by Owner; Partner; Corp. Pres., Vice Pres., or other authorized Corp. Officer. (If signed by other authorized Corp. Officer, please attach copy of Power of Attorney or other documentation showing authority to sign.)

MERCER COUNTY HIGHWAY DEPARTMENT

APPLICANT:

NAME (TYPE OR PRINT) <u>ROBERT ROSE</u>	COUNTY ENGINEER (TYPE OR PRINT) <u>Ker J. Miller</u>
SIGNATURE <u>[Signature]</u>	SIGNATURE <u>[Signature]</u>
TITLE <u>Vice President, Land and Right of Way</u>	DATE <u>06 April 16</u>
DATE <u>1/28/16</u>	

Permit Granted: 06 April, 2016 Construction to be completed by: Summer 2016, 20



WD-me-011.300.900
CR #5 1.

Utility Occupancy Application and Permit

Permit # 1622 (16)

Applicant Information:

DAKOTA ACCESS LLC of Houston TX 77002
Owner of Facility City State

1300 MAIN STREET
Mailing Address

Claire Cunningham SR. Permits Agent 802-989-2489
Applicant's Agent Title Telephone Number

Mercer County Road # 7449 SW Direction N (S) E W _____ miles from city of _____
 or 8500' _____ miles from Junction Mercer County Road # 13 St SW
 Section(s) 15 & 14 Township 143 Range 90

Type of Facility:

30" CRUDE OIL PIPELINE
Description of proposed facility (include drawings/sketches/staking sheet)

OPEN CUT
Description of proposed method of installation

RECEIVED

MAR 11 2016

BY: _____

<small>Size of Facility</small>	<small>Number of Cables</small>	<small>Length of Down Guys</small>
<u>1470 PSIG</u>	<u>N/A</u>	<u>N/A</u>
<small>Pipeline Pressure</small>	<small>Size of Casing</small>	<small>Length of Casing</small>
<small>Location of Pole(s)</small>	<small>Location of Appurtenances (Vents, Manholes, Valves, etc.)</small>	<small>Location-Others</small>

Terms & Conditions: Installation and method of said facilities on highway right of way shall be subject to the following terms & conditions; and the installation & maintenance provisions, attached hereto and made a part hereof.

- A. Installation of said facility shall be done in a manner satisfactory to the Mercer County Road Superintendent.
- B. Applicant shall notify the Mercer County Road Superintendent 48 hours prior to maintaining, relocating, or removal of said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the Mercer County Road Superintendent.
- C. Mercer County shall not be liable for damage to said facilities resulting from reconstruction or maintenance of the highway. Applicant shall hold Mercer County and any of its employees harmless for injury to persons or damage to property resulting from the location of said facilities on highway right of way.
- D. Applicant shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way; which may be damaged as a result of the installation & maintenance of said facilities on highway right of way.
- E. Applicant shall remove said facilities from highway right of way or shall relocate or adjust said facilities at its sole cost & expense when they are requested to do so by Mercer County, which shall be completed as soon thereafter as is practicable.
- F. Containment of Weeds until permanent grass has been established.
- G. Additional installation & maintenance requirements are as follows (if applicable):

H. Installation shall be completed on or before _____

2/11/16
Date

Applicant Signature
Vice President, Land and Right of Way

Applicant is hereby granted permission to install & maintain the facilities applied for, as shown on the plans attached hereto & made a part hereof.

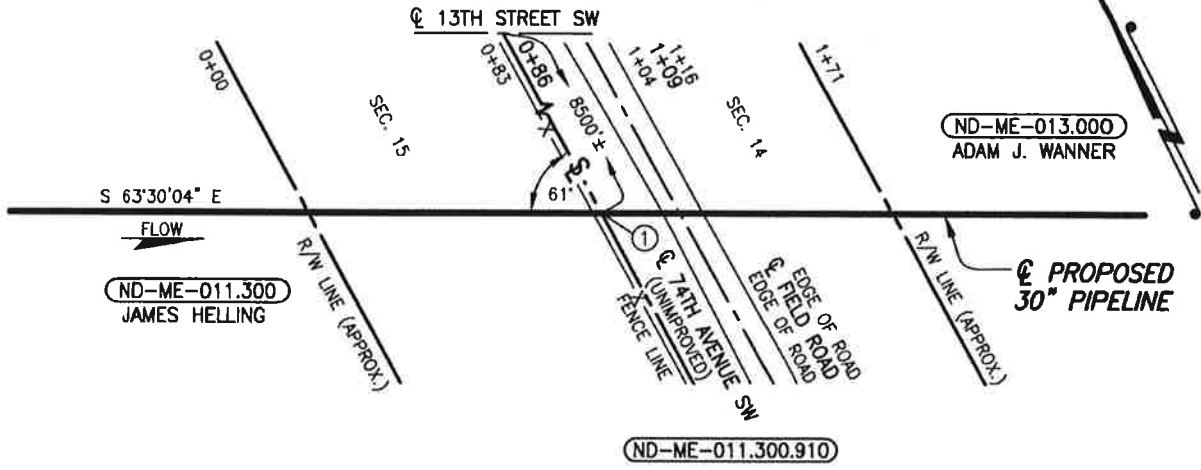
Approved by Mercer County Board of Commissioners/Road Superintendent this 06 day of April 20 16

[Signature]
Road Superintendent
[Signature]
Chairman Mercer County Commission

ATTENTION: ALL DAKOTA ACCESS UTILITIES

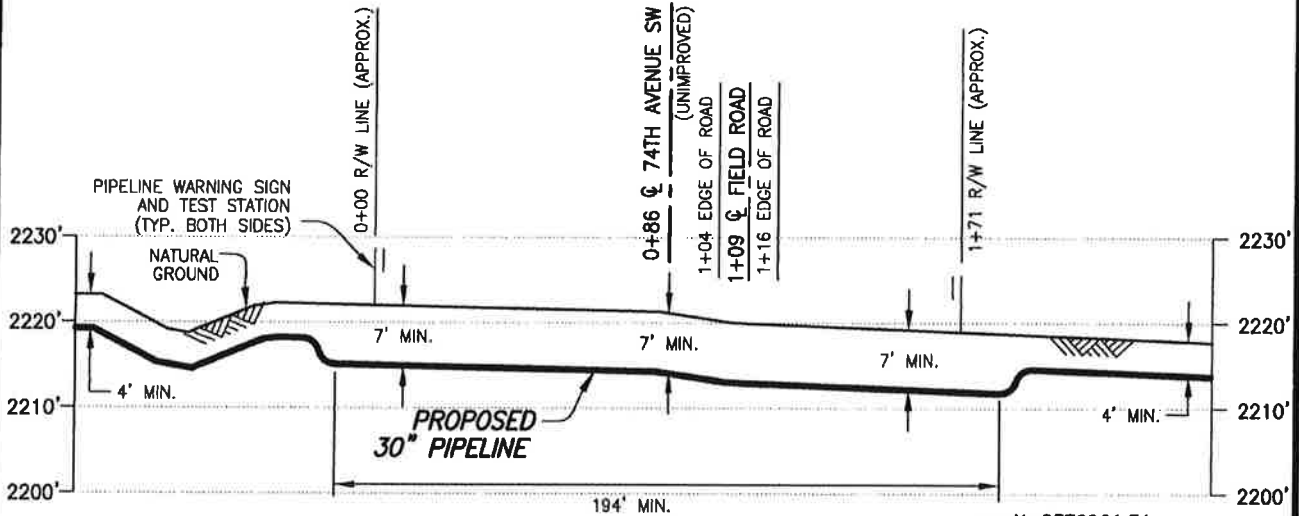
MERCER COUNTY, NORTH DAKOTA

SECTIONS 15 & 14, TOWNSHIP 143 NORTH, RANGE 90 WEST



PLAN

SCALE: 1"=50'



PROFILE

SCALE: 1"=50' HORIZ.
1"=20' VERT.

PIPE SPECIFICATIONS

PIPE 30" O.D. x 0.625" W.T.
API 5LX-70 HSAW
COATING: 14-16 MILS FBE
SERVICE: CRUDE OIL
INSTALLATION: OPEN CUT
MIN. TEST PRESSURE: 1,800 PSIG
MOP: 1,440 PSIG
MIN. YIELD STRENGTH: 70,000 PSI

DATUM:

ALL ELEVATIONS DERIVED FROM GPS OBSERVATIONS (GEOID 2012, NAVD 88) BEARINGS BASED ON UTM ZONE 13 NORTH AMERICAN DATUM 1983. U.S. SURVEY FEET T.B.M.: \odot FIELD ROAD AT STA. 1+09, ELEV. 2219.92'

REV.	DATE	BY	DESCRIPTION	CHK.
C	03/10/16	JMH	ISSUED FOR USE/PERMIT	RC
B	03/08/16	JTM	ISSUED FOR USE/PERMIT	RC
A	03/04/16	SMR	ISSUED FOR USE/PERMIT	RC



DAKOTA ACCESS, LLC

PROPOSED 30" DAPL PIPELINE CROSSING 74TH AVENUE SW

PROJECT NO. 10395700

MERCER COUNTY NORTH DAKOTA



WOOD GROUP MUSTANG, INC.
NORTH DAKOTA REGISTERED ENGINEERING FIRM 627C

DRAWN BY: JMH	DATE: 03/03/16	DWG. NO.	REV.
CHECKED BY: TC	DATE: 03/03/16	ND-ME-011.300.910	C
SCALE: AS SHOWN	APP.:		

FILE: R:\Projects\103957\DISCIPLINE\CAD\DRAWINGS\93-PERMIT\NORTH DAKOTA\MERCER COUNTY\103957-PB-ND-ME-011.300.910.dwg PLOT DATE: 3/10/2016 BY: HARBOLT, JASON

Utility Occupancy Application and Permit

Permit # 1623 (16)

Applicant Information:

DAKOTA ACCESS LLC of Houston TX 77002
Owner of Facility City State

1300 MAIW STREET
Mailing Address

Claire Cunningham SR. Permits Agent 802-989-2489
Applicant's Agent Title Telephone Number

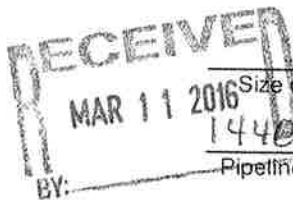
Mercer County Road # 15 ST SW Direction N S E W miles from city of CRH
 or 4900' miles from Junction Mercer County Road # CR #5

Section(s) 14 & 23 Township 143 Range 90

Type of Facility:

30" CRUDE OIL PIPELINE
Description of proposed facility (include drawings/sketches/staking sheet)

OPEN CUT
Description of proposed method of installation



<small>Size of Facility</small>	<small>Number of Cables</small>	<small>Length of Down Guys</small>
<u>1440 PSIG</u>	<u>N/A</u>	<u>N/A</u>
<small>Pipeline Pressure</small>	<small>Size of Casing</small>	<small>Length of Casing</small>
<small>Location of Pole(s)</small>	<small>Location of Appurtenances (Vents, Manholes, Valves, etc.)</small>	<small>Location-Others</small>

Terms & Conditions: Installation and method of said facilities on highway right of way shall be subject to the following terms & conditions; and the installation & maintenance provisions, attached hereto and made a part hereof.

- A. Installation of said facility shall be done in a manner satisfactory to the Mercer County Road Superintendent.
- B. Applicant shall notify the Mercer County Road Superintendent 48 hours prior to maintaining, relocating, or removal of said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the Mercer County Road Superintendent.
- C. Mercer County shall not be liable for damage to said facilities resulting from reconstruction or maintenance of the highway. Applicant shall hold Mercer County and any of its employees harmless for injury to persons or damage to property resulting from the location of said facilities on highway right of way.
- D. Applicant shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way; which may be damaged as a result of the installation & maintenance of said facilities on highway right of way.
- E. Applicant shall remove said facilities from highway right of way or shall relocate or adjust said facilities at its sole cost & expense when they are requested to do so by Mercer County, which shall be completed as soon thereafter as is practicable.
- F. Containment of Weeds until permanent grass has been established.
- G. Additional installation & maintenance requirements are as follows (if applicable):
- H. Installation shall be completed on or before _____

2/11/16
Date

Vice President, Land and Right of Way
Applicant Signature

Applicant is hereby granted permission to install & maintain the facilities applied for, as shown on the plans attached hereto & made a part hereof.

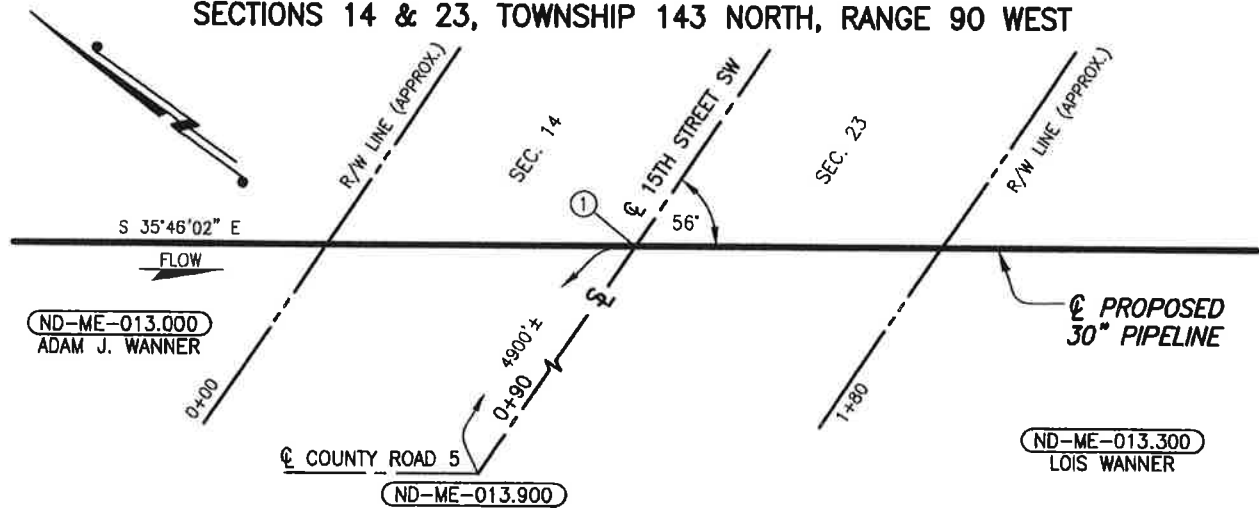
Approved by Mercer County Board of Commissioners/Road Superintendent this 06 day of April 20 16.

Ken J. Miller
Road Superintendent
[Signature]
Chairman, Mercer County Commission

ND-ME-012.900 15 ST SW

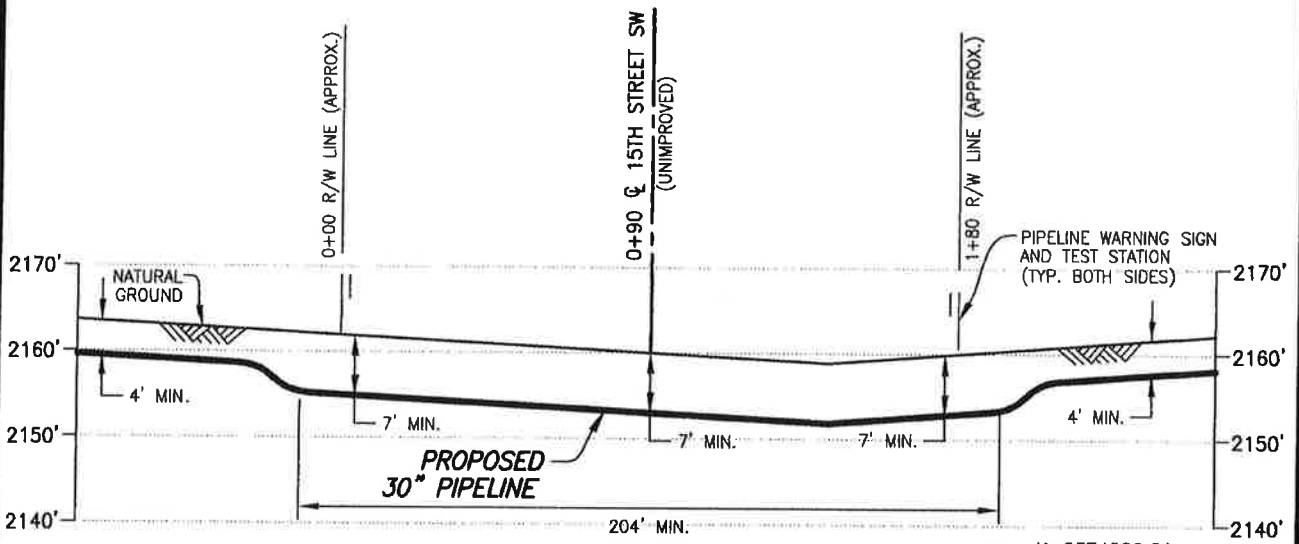
MERCER COUNTY, NORTH DAKOTA

SECTIONS 14 & 23, TOWNSHIP 143 NORTH, RANGE 90 WEST



PLAN

SCALE: 1"=50'



PROFILE

SCALE: 1"=50' HORIZ.
1"=20' VERT.

PIPE SPECIFICATIONS

PIPE 30" O.D. x 0.625" W.T.
API 5LX-70 HSAW
COATING: 14-16 MILS FBE
SERVICE: CRUDE OIL
INSTALLATION: OPEN CUT
MIN. TEST PRESSURE: 1,800 PSIG
MOP: 1,440 PSIG
MIN. YIELD STRENGTH: 70,000 PSI

① X=2374229.01
Y=17163288.67

DATUM:

ALL ELEVATIONS DERIVED FROM GPS OBSERVATIONS (GEOID 2012, NAVD 88) BEARINGS BASED ON UTM ZONE 13 NORTH AMERICAN DATUM 1983. U.S. SURVEY FEET

T.B.M.: \odot 15TH STREET SW AT STA. 0+90, ELEV. 2160.01'

FILE: R:\Projects\103957\DISCIPLINE\CAD\DRAWINGS\93-PERMIT\NORTH DAKOTA\MERCER COUNTY\103957-P8-ND-ME-013.900.dwg PLOT DATE: 3/3/2016 BY: MADAMBA, JOEY

REV.	DATE	BY	DESCRIPTION	CHK.
A	03/02/16	ARC	ISSUED FOR USE/PERMIT	RC

PROJECT NO. 10395700



WOOD GROUP MUSTANG, INC.
NORTH DAKOTA REGISTERED ENGINEERING FIRM 627C



DAKOTA ACCESS, LLC

PROPOSED 30" DAPL PIPELINE CROSSING 15TH STREET SW

MERCER COUNTY		NORTH DAKOTA	
DRAWN BY: ARC	DATE: 03/02/16	DWG. NO.	REV.
CHECKED BY: RC	DATE: 03/02/16	ND-ME-013.900	A
SCALE: AS SHOWN	APP.:		

Utility Occupancy Application and Permit

Permit # 1624(16)

Applicant Information:

DAKOTA ACCESS LLC of Houston, Tx 77002
Owner of Facility City State

1300 MAIN STREET
Mailing Address

Carrie Cunningham Sr. Permits Agent 802-989-2489
Applicant's Agent Title Telephone Number

Mercer County Road # 3465W Direction N S E W _____ miles from city of _____
 or 10,900' miles from Junction Mercer County Road # 13 St. SW

Section(s) 23 & 24 Township 143 Range 90

Type of Facility:

30" CRUDE OIL PIPELINE
Description of proposed facility (include drawings/sketches/staking sheet)

OPEN CUT
Description of proposed method of installation

RECEIVED
MAR 11 2016

<small>BY: _____</small>	<small>Size of Facility</small>	<small>Number of Cables</small>	<small>Length of Down Guys</small>
	<u>1440 PSIG</u>	<u>N/A</u>	<u>N/A</u>
	<small>Pipeline Pressure</small>	<small>Size of Casing</small>	<small>Length of Casing</small>
<small>Location of Pole(s)</small>	<small>Location of Appurtenances (Vents, Manholes, Valves, etc.)</small>	<small>Location-Others</small>	

Terms & Conditions: Installation and method of said facilities on highway right of way shall be subject to the following terms & conditions; and the installation & maintenance provisions, attached hereto and made a part hereof.

- A. Installation of said facility shall be done in a manner satisfactory to the Mercer County Road Superintendent.
- B. Applicant shall notify the Mercer County Road Superintendent 48 hours prior to maintaining, relocating, or removal of said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the Mercer County Road Superintendent.
- C. Mercer County shall not be liable for damage to said facilities resulting from reconstruction or maintenance of the highway. Applicant shall hold Mercer County and any of its employees harmless for injury to persons or damage to property resulting from the location of said facilities on highway right of way.
- D. Applicant shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way; which may be damaged as a result of the installation & maintenance of said facilities on highway right of way.
- E. Applicant shall remove said facilities from highway right of way or shall relocate or adjust said facilities at its sole cost & expense when they are requested to do so by Mercer County, which shall be completed as soon thereafter as is practicable.
- F. Containment of Weeds until permanent grass has been established.
- G. Additional installation & maintenance requirements are as follows (if applicable):
- H. Installation shall be completed on or before _____

2/11/16
Date

Vice President, Land and Right of Way
Applicant Signature

Applicant is hereby granted permission to install & maintain the facilities applied for, as shown on the plans attached hereto & made a part hereof.

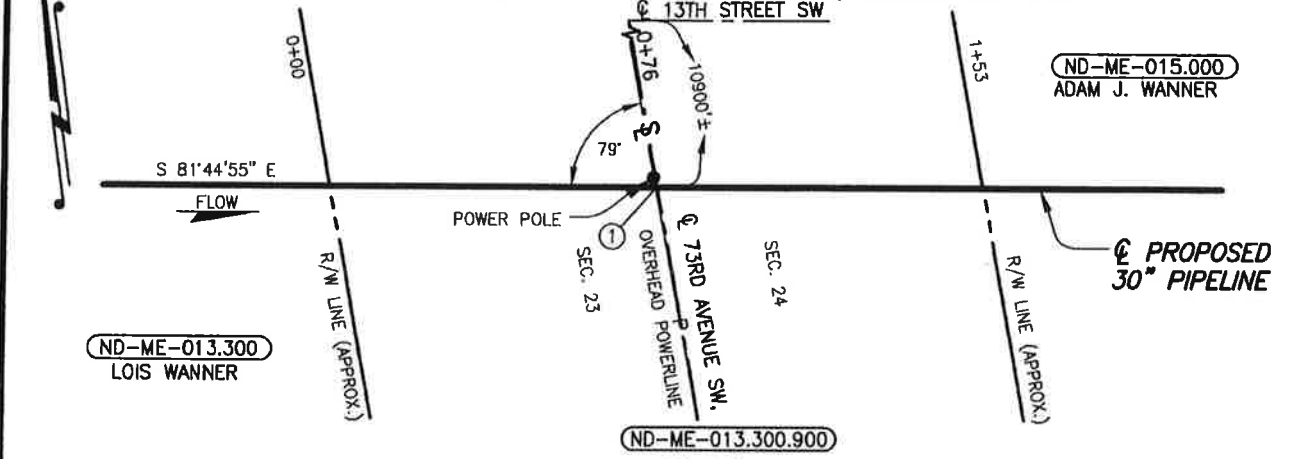
Approved by Mercer County Board of Commissioners/Road Superintendent this 06 day of April 2016

Ther J. Nulb [Signature]
Road Superintendent Chairman, Mercer County Commission

ND-ME-013 201.900 731NE

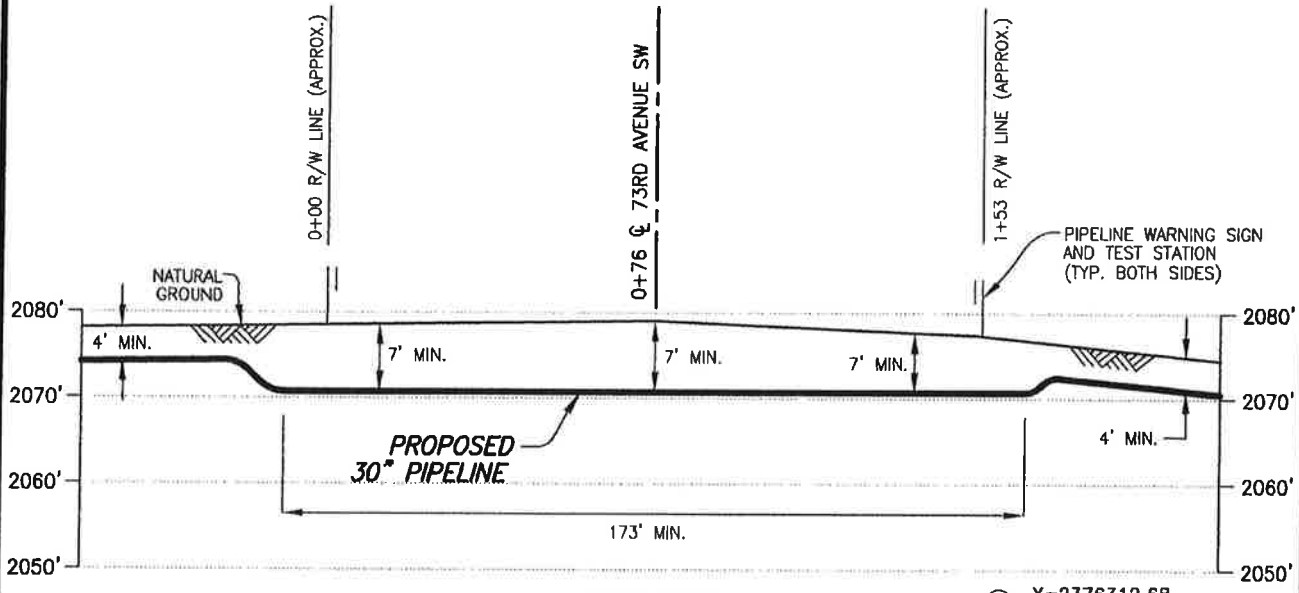
MERCER COUNTY, NORTH DAKOTA

SECTIONS 23 & 24, TOWNSHIP 143 NORTH, RANGE 90 WEST



ND-ME-013.300.900

PLAN
SCALE: 1"=40'



PROFILE

SCALE: 1"=40' HORIZ.
1"=20' VERT.

① X=2376312.68
Y=17163003.21

DATUM:
ALL ELEVATIONS DERIVED FROM GPS OBSERVATIONS (GEOID 2012, NAVD 88) BEARINGS BASED ON UTM ZONE 13 NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET
T.B.M.: @ 73RD AVENUE SW AT STA. 0+76, ELEV. 2079.09'

PIPE SPECIFICATIONS

PIPE 30" O.D. x 0.625" W.T.
API 5LX-70 HSAW
COATING: 14-16 MILS FBE
SERVICE: CRUDE OIL
INSTALLATION: OPEN CUT
MIN. TEST PRESSURE: 1,800 PSIG
MOP: 1,440 PSIG
MIN. YIELD STRENGTH: 70,000 PSI

FILE: R:\Projects\103957\DISCIPLINE\CAD\DRAWINGS\93-PERMIT\NORTH DAKOTA\MERCER COUNTY\103957-PB-ND-ME-013.300.900.dwg PLOT DATE: 3/7/2016 BY: MADAMBA, JOEY

REV.	DATE	BY	DESCRIPTION	CHK.
A	03/07/16	JTM	ISSUE FOR USE/PERMIT	RC

PROJECT NO. 10395700

WOOD GROUP MUSTANG, INC.
NORTH DAKOTA REGISTERED ENGINEERING FIRM 627C



PROPOSED 30" DAPL PIPELINE CROSSING

73RD AVENUE SW

MERCER COUNTY		NORTH DAKOTA	
DRAWN BY: JTM	DATE: 03/07/16	DWG. NO.	REV.
CHECKED BY: TC	DATE: 03/07/16	ND-ME-013.300.900	A
SCALE: AS SHOWN	APP.: RC		

Utility Occupancy Application and Permit

Permit # 1596 (16)

Applicant Information:

DAKOTA ACCESS LLC of Houston, TX 77002
Owner of Facility City State

1300 MAIN STREET
Mailing Address Telephone Number

Clare Cunningham SR. Permits Agent 802-989-2489
Applicant's Agent Title Telephone Number

Location of Facility:

Mercer County Road # 16 St. SW Direction N S E W miles from city of _____

or 12450' miles from Junction Mercer County Road # 5

Section(s) 24 & 25 Township 143 N Range 90 W

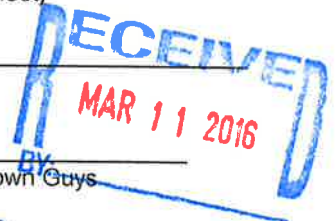
Type of Facility:

30" CRUDE OIL PIPELINE
Description of proposed facility (include drawings/sketches/staking sheet)

OPEN CUT
Description of proposed method of installation

Size of Facility <u>1440 PSIG</u> Pipeline Pressure	Number of Cables <u>N/A</u> Size of Casing	Length of Down Guys <u>N/A</u> Length of Casing
---	--	---

Location of Pole(s)	Location of Appurtenances (Vents, Manholes, Valves, etc.)	Location-Others
---------------------	--	-----------------



Terms & Conditions:

Installation and method of said facilities on highway right of way shall be subject to the following terms & conditions; and the installation & maintenance provisions, attached hereto and made a part hereof.

- A. Installation of said facility shall be done in a manner satisfactory to the Mercer County Road Superintendent.
- B. Applicant shall notify the Mercer County Road Superintendent 48 hours prior to maintaining, relocating, or removal of said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the Mercer County Road Superintendent.
- C. Mercer County shall not be liable for damage to said facilities resulting from reconstruction or maintenance of the highway. Applicant shall hold Mercer County and any of its employees harmless for injury to persons or damage to property resulting from the location of said facilities on highway right of way.
- D. Applicant shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way; which may be damaged as a result of the installation & maintenance of said facilities on highway right of way.
- E. Applicant shall remove said facilities from highway right of way or shall relocate or adjust said facilities at its sole cost & expense when they are requested to do so by Mercer County, which shall be completed as soon thereafter as is practicable.
- F. Containment of Weeds until permanent grass has been established.
- G. Additional installation & maintenance requirements are as follows (if applicable):

H. Installation shall be completed on or before 2/11/16
Date

IBD May 2017
[Signature] Vice President, Land and Right of Way
Applicant Signature

Applicant is hereby granted permission to install & maintain the facilities applied for, as shown on the plans attached hereto & made a part hereof.

Approved by Mercer County Board of Commissioners/Road Superintendent this 06 day of April 20 16

[Signature]
Road Superintendent

[Signature]
Chairman, Mercer County Commission

ND-ME-016-900
16 St. SW

Longitudinal:

Location # _____
Mercer Co. Highway # 16 St. SW Lanes of Traffic 2 4 section line
Direction N S E W _____ feet from mile marker _____
Direction N S E W _____ miles from city of _____
or 12,450' miles from junction highway # CR 5

Location # _____
_____ Highway # _____ Lanes of Traffic 2 4
Direction N S E W _____ feet from mile marker _____
Direction N S E W _____ miles from city of _____
or _____ miles from junction highway # _____

Location # _____
_____ Highway # _____ Lanes of Traffic 2 4
Direction N S E W _____ feet from mile marker _____
Direction N S E W _____ miles from city of _____
or _____ miles from junction highway # _____

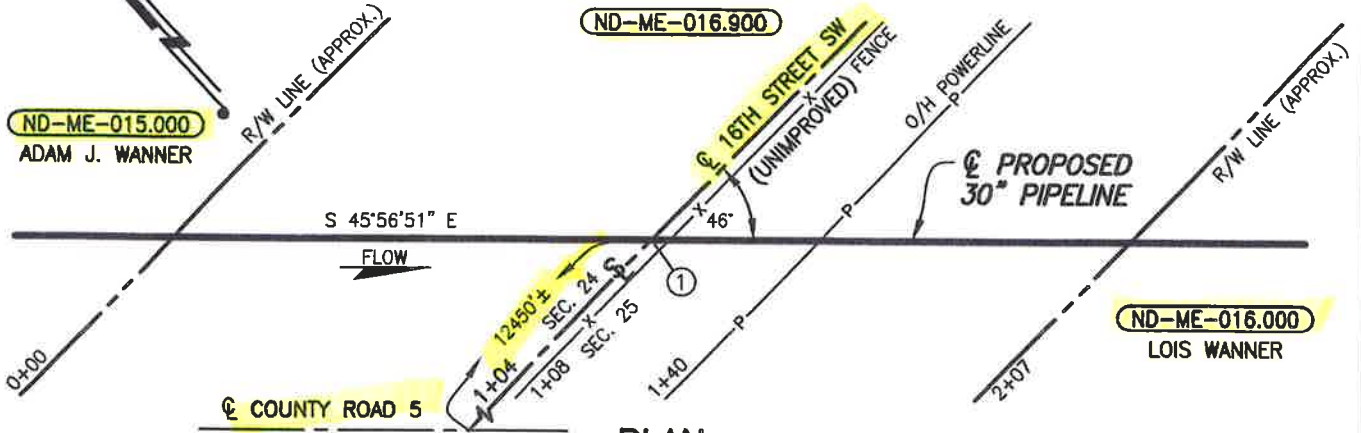
Location # _____
_____ Highway # _____ Lanes of Traffic 2 4
Direction N S E W _____ feet from mile marker _____
Direction N S E W _____ miles from city of _____
or _____ miles from junction highway # _____

Interstate Highways (applicant's description of the proposed method of ingress and egress to each work location).

ND-ME-016.900
16 St. SW

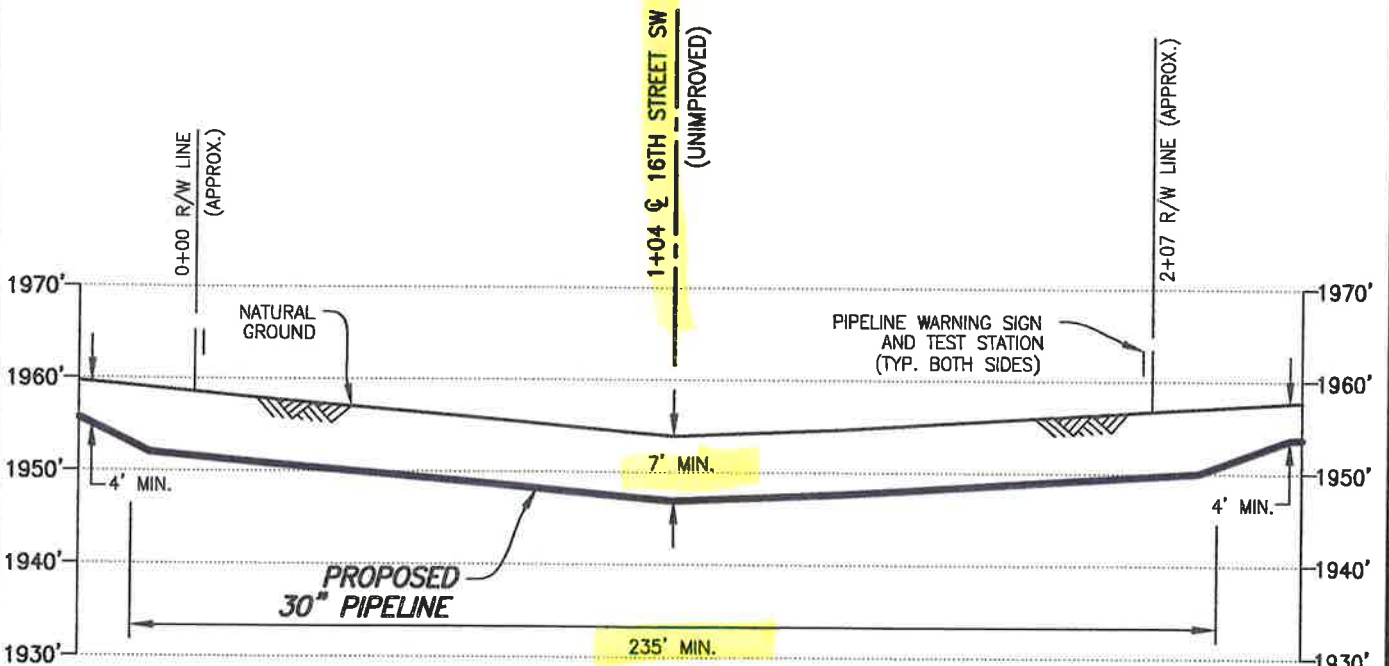
MERCER COUNTY, NORTH DAKOTA

SECTIONS 24 & 25, TOWNSHIP 143 NORTH, RANGE 90 WEST



PLAN

SCALE: 1"=40'



PROFILE

SCALE: 1"=40' HORIZ.
1"=20' VERT.

① X=2380513.41
Y=17158254.06

DATUM:
ALL ELEVATIONS DERIVED FROM GPS OBSERVATIONS (GEOID 2012, NAVD 88) BEARINGS BASED ON UTM ZONE 13 NORTH AMERICAN DATUM 1983. U.S. SURVEY FEET
T.B.M.: \odot FENCE AT STA. 1+08, ELEV. 1953.89'

PIPE SPECIFICATIONS

PIPE 30" O.D. x 0.625" W.T.
API 5LX-70 HSAW
COATING: 14-16 MILS FBE
W/40 MILS ARO
SERVICE: CRUDE OIL
INSTALLATION: OPEN CUT
MIN. TEST PRESSURE: 1,800 PSIG
MOP: 1,440 PSIG
MIN. YIELD STRENGTH: 70,000 PSI

REV.	DATE	BY	DESCRIPTION	CHK.
B	10/27/15	JTM	ISSUED FOR USE/PERMIT	RC
A	03/02/15	PRV	ISSUED FOR USE/PERMIT	RC



DAKOTA ACCESS, LLC

PROPOSED 30" DAPL PIPELINE CROSSING 16TH STREET SW (UNIMPROVED)

PROJECT NO. 10395700

MERCER COUNTY		NORTH DAKOTA	
DRAWN BY: MS	DATE: 01/30/15	DWG. NO.	REV.
CHECKED BY: RC	DATE: 03/02/15	ND-ME-016.900	B
SCALE: AS SHOWN	APP.:		



WOOD GROUP MUSTANG, INC.
NORTH DAKOTA REGISTERED ENGINEERING FIRM 627C

FILE: R:\103957\DISCIPLINE\CAD\DRAWINGS\93-PERMIT\NORTH DAKOTA\MERCER COUNTY\103957-P8-NI 016.900.dwg PLOT DATE: 10/27/2015 BY: MADAMBA, JOEY

Utility Occupancy Application and Permit

Permit # 1625 (16)

Applicant Information:

DAKOTA ACCESS LLC of Houston, Tx 77002
Owner of Facility City State

1300 MAIN STREET
Mailing Address Telephone Number

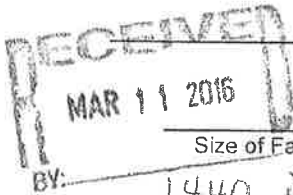
Chaire Cunningham SR. Permits Agent 802.989.2489
Applicant's Agent Title Telephone Number

Mercer County Road # 72 AVE SW Direction N(S)E W _____ miles from city of _____
 or 1320' miles from Junction Mercer County Road # 16 ST. SW
 Section(s) 25 & 30 Township 143 Range 90189

Type of Facility:

30" CRUDE OIL PIPELINE
Description of proposed facility (include drawings/sketches/staking sheet)

OPEN CUT
Description of proposed method of installation



Size of Facility	Number of Cables	Length of Down Guys
<u>1440 PSIG</u>	<u>N/A</u>	<u>N/A</u>
Pipeline Pressure	Size of Casing	Length of Casing
Location of Pole(s)	Location of Appurtenances (Vents, Manholes, Valves, etc.)	Location-Others

Terms & Conditions: Installation and method of said facilities on highway right of way shall be subject to the following terms & conditions; and the installation & maintenance provisions, attached hereto and made a part hereof.

- A. Installation of said facility shall be done in a manner satisfactory to the Mercer County Road Superintendent.
- B. Applicant shall notify the Mercer County Road Superintendent 48 hours prior to maintaining, relocating, or removal of said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the Mercer County Road Superintendent.
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- E. Applicant shall remove said facilities from highway right of way or shall relocate or adjust said facilities at its sole cost & expense when they are requested to do so by Mercer County, which shall be completed as soon thereafter as is practicable.
- F. Containment of Weeds until permanent grass has been established.
- G. Additional installation & maintenance requirements are as follows (if applicable):
- H. Installation shall be completed on or before _____

2/11/14
Date

[Signature] Vice President, Land and Right of Way
Applicant Signature

Applicant is hereby granted permission to install & maintain the facilities applied for, as shown on the plans attached hereto & made a part hereof.

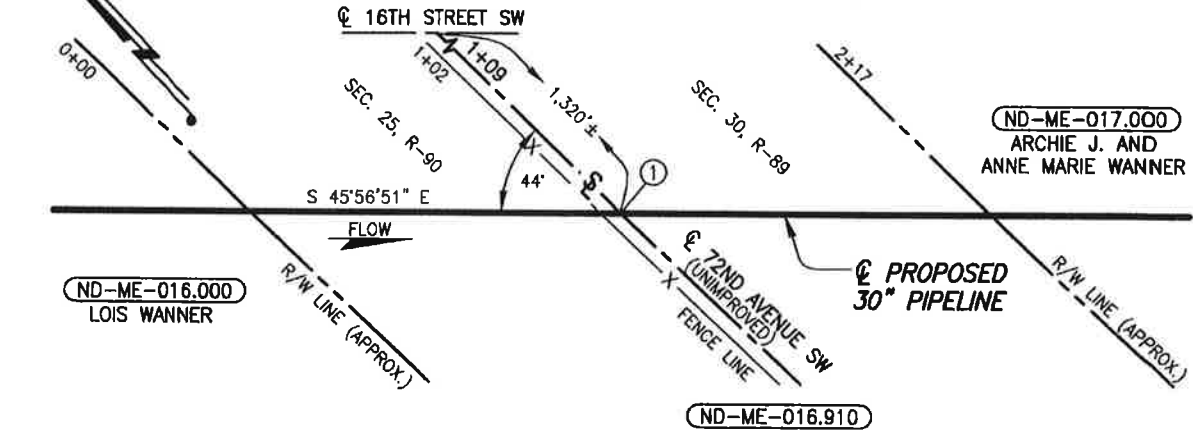
Approved by Mercer County Board of Commissioners/Road Superintendent this 06 day of April 20 16

[Signature]
Road Superintendent

[Signature]
Chairman, Mercer County Commission

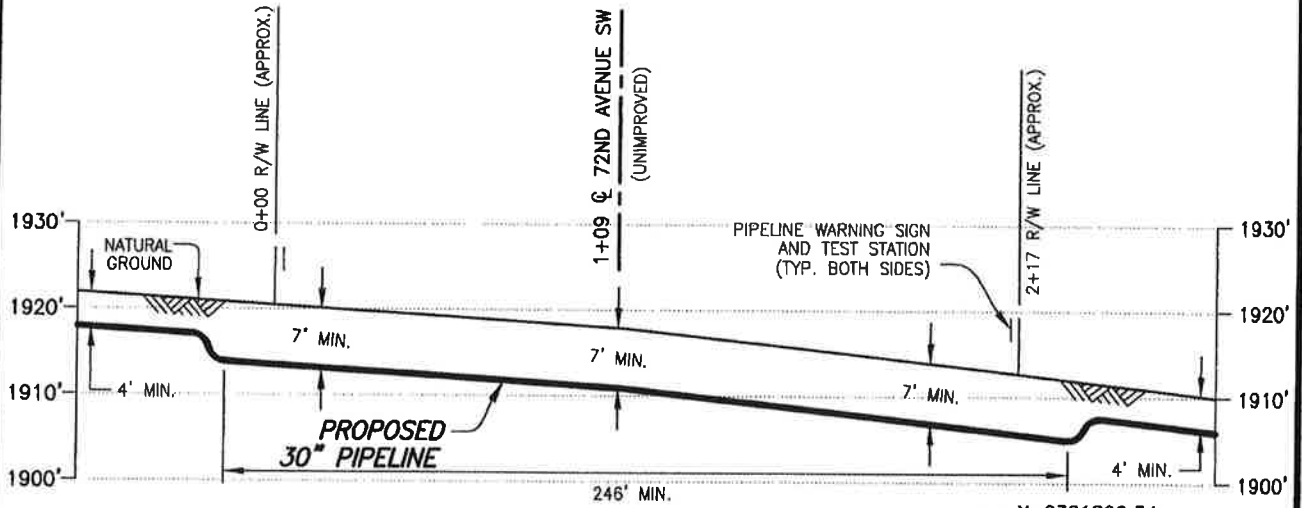
MERCER COUNTY, NORTH DAKOTA

SECTIONS 25 & 30, TOWNSHIP 143 NORTH, RANGES 90 & 89 WEST



PLAN

SCALE: 1"=50'



PROFILE

SCALE: 1"=50' HORIZ.
1"=20' VERT.

PIPE SPECIFICATIONS
 PIPE 30" O.D. x 0.625" W.T.
 API 5LX-70 HSAW
 COATING: 14-16 MILS FBE
 SERVICE: CRUDE OIL
 INSTALLATION: OPEN CUT
 MIN. TEST PRESSURE: 1,800 PSIG
 MOP: 1,440 PSIG
 MIN. YIELD STRENGTH: 70,000 PSI

DATUM:
 ALL ELEVATIONS DERIVED FROM GPS
 OBSERVATIONS (GEOID 2012, NAVD 88)
 BEARINGS BASED ON UTM ZONE 13
 NORTH AMERICAN DATUM 1983.
 U.S. SURVEY FEET
 T.B.M.: ϕ FENCE
 AT STA. 1+02, ELEV. 1917.83'

FILE: R:\Projects\103957\DISCIPLINE\CAD\DRAWINGS\93-PERMIT\NORTH DAKOTA\MERCER COUNTY\103957-P8-ND-ME-016.910.dwg PLOT DATE: 3/4/2016 BY: MANSKE, MATTHEW

A	03/03/16	JMH	ISSUED FOR USE/PERMIT	RC
REV.	DATE	BY	DESCRIPTION	CHK.
PROJECT NO.			10395700	
		WOOD GROUP MUSTANG, INC. NORTH DAKOTA REGISTERED ENGINEERING FIRM 627C		

DAKOTA ACCESS, LLC

**PROPOSED 30" DAPL PIPELINE CROSSING
72ND AVENUE SW**

MERCER COUNTY		NORTH DAKOTA	
DRAWN BY: JMH	DATE: 03/03/16	DWG. NO.	REV.
CHECKED BY: TC	DATE: 03/03/16	ND-ME-016.910	A
SCALE: AS SHOWN	APP.:		

Utility Occupancy Application and Permit

Permit # 1626 (16)

Applicant Information:

DAKOTA ACCESS LLC of Houston, Tx 77002
Owner of Facility City State

1300 MAIN STREET
Mailing Address

Caure Cunningham SR. Permits Agent 802-989-2489
Applicant's Agent Title Telephone Number

Mercer County Road # 17ST. SW Direction N S E W W miles from city of _____
 or 11,500' miles from Junction Mercer County Road # CR #11

Section(s) 30 & 31 Township 143 Range 89

Type of Facility:

30" CRUDE OIL PIPELINE
Description of proposed facility (include drawings/sketches/staking sheet)

OPEN CUT
Description of proposed method of installation

RECEIVED
 MAR 11 2016
 BY: _____

Size of Facility	Number of Cables	Length of Down Guys
<u>1440 PSIG</u>	<u>N/A</u>	<u>N/A</u>
Pipeline Pressure	Size of Casing	Length of Casing
Location of Pole(s)	Location of Appurtenances <small>(Vents, Manholes, Valves, etc.)</small>	Location-Others

Terms & Conditions: Installation and method of said facilities on highway right of way shall be subject to the following terms & conditions; and the installation & maintenance provisions, attached hereto and made a part hereof.

- A. Installation of said facility shall be done in a manner satisfactory to the Mercer County Road Superintendent.
- B. Applicant shall notify the Mercer County Road Superintendent 48 hours prior to maintaining, relocating, or removal of said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the Mercer County Road Superintendent.
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- D. Applicant shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way; which may be damaged as a result of the installation & maintenance of said facilities on highway right of way.
- E. Applicant shall remove said facilities from highway right of way or shall relocate or adjust said facilities at its sole cost & expense when they are requested to do so by Mercer County, which shall be completed as soon thereafter as is practicable.
- F. Containment of Weeds until permanent grass has been established.
- G. Additional installation & maintenance requirements are as follows (if applicable):
- H. Installation shall be completed on or before _____

2/11/16 [Signature]
Date Vice President, Land and Right of Way Applicant Signature

Applicant is hereby granted permission to install & maintain the facilities applied for, as shown on the plans attached hereto & made a part hereof.

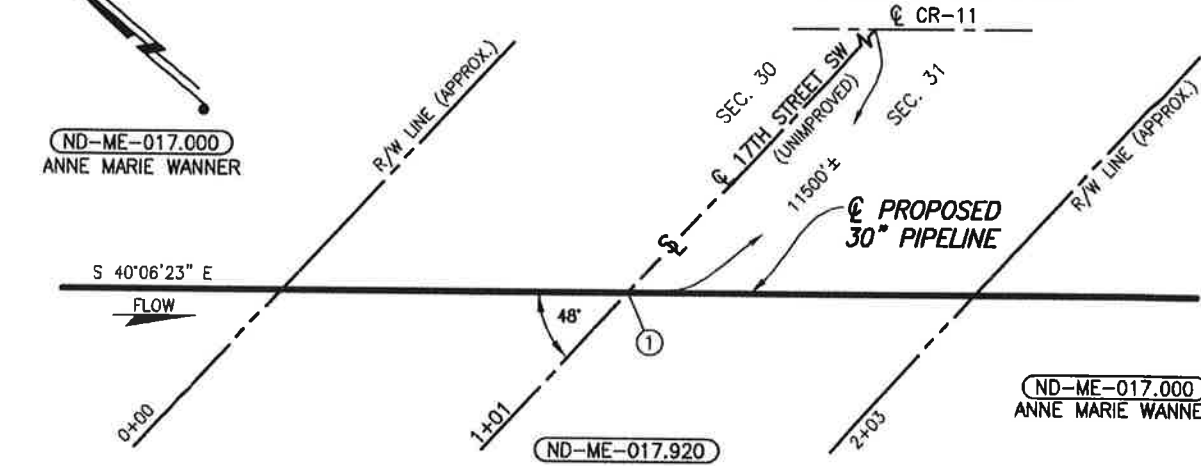
Approved by Mercer County Board of Commissioners/Road Superintendent this 06 day of April 2016

[Signature] [Signature]
Road Superintendent Chairman, Mercer County Commission

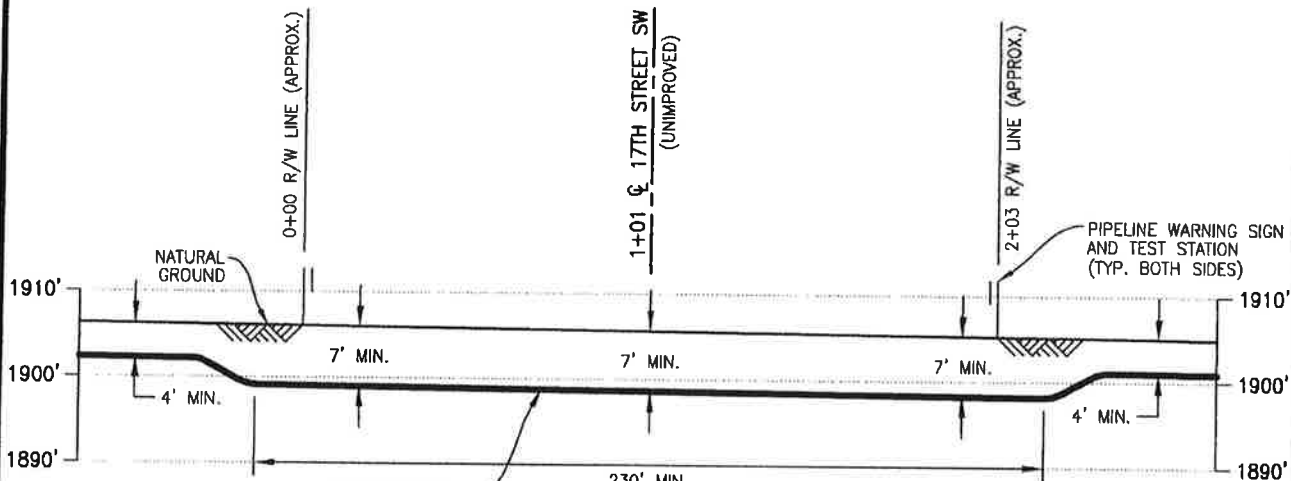
ND-ME-017.920 17 St. SW

MERCER COUNTY, NORTH DAKOTA

SECTIONS 30 & 31, TOWNSHIP 143 NORTH, RANGE 89 WEST



PLAN
SCALE: 1"=50'



PIPE SPECIFICATIONS
 PIPE 30" O.D. x 0.625" W.T.
 API 5LX-70 HSAW
 COATING: 14-16 MILS FBE
 SERVICE: CRUDE OIL
 INSTALLATION: OPEN CUT
 MIN TEST PRESSURE: 1,800 PSIG
 MOP: 1,440 PSIG
 MIN. YIELD STRENGTH: 70,000 PSI

PROPOSED 30" PIPELINE

PROFILE
SCALE: 1"=50' HORIZ.
1"=20' VERT.

DATUM:
 ALL ELEVATIONS DERIVED FROM GPS OBSERVATIONS (GEOID 2012, NAVD 88) BEARINGS BASED ON UTM ZONE 14 NORTH AMERICAN DATUM 1983. U.S. SURVEY FEET
 T.B.M.: \odot 17TH STREET SW AT STA. 1+01, ELEV. 1905.64'

FILE: R:\Projects\103957\DISCIPLINE\CAD\DRAWINGS\93-PERMIT\NORTH DAKOTA\MERCER COUNTY\103957-P8-ND-ME-017.920.dwg PLOT DATE: 3/3/2016 BY: HARBOLT, JASON

REV.	DATE	BY	DESCRIPTION	CHK.
A	03/02/16	JWH	ISSUED FOR USE/PERMIT	RC


 DAKOTA ACCESS, LLC

PROPOSED 30" DAPL PIPELINE CROSSING
17TH STREET SW

PROJECT NO. **10395700**

 **WOOD GROUP MUSTANG, INC.**
NORTH DAKOTA REGISTERED ENGINEERING FIRM 627C

MERCER COUNTY		17TH STREET SW		NORTH DAKOTA	
DRAWN BY: JWH	DATE: 03/02/16	DWG. NO.	REV.		
CHECKED BY: RC	DATE: 03/02/16	ND-ME-017.920		A	
SCALE: AS SHOWN	APP.:				

Utility Occupancy Application and Permit

Permit # 1627 (6)

Applicant Information:

DAKOTA ACCESS LLC of Houston, Tx 77002
Owner of Facility City State

1300 MAIN STREET
Mailing Address Telephone Number

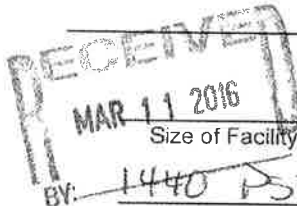
Carrie Cunningham SR. Permits Agent 802.989.2489
Applicant's Agent Title Telephone Number

Mercer County Road # 71 Ave SW Direction (N) S E W miles from city of _____
 or 30,540' miles from Junction Mercer County Road # 23 St. SW
 Section(s) 31 & 32 Township 143 Range 89

Type of Facility:

30" CRUDE OIL PIPELINE
Description of proposed facility (include drawings/sketches/staking sheet)

OPEN CUT
Description of proposed method of installation



<u>1440 PSIG</u> <small>Size of Facility</small>	<u>N/A</u> <small>Number of Cables</small>	<u>N/A</u> <small>Length of Down Guys</small>
<u>1440 PSIG</u> <small>Pipeline Pressure</small>	<u>N/A</u> <small>Size of Casing</small>	<u>N/A</u> <small>Length of Casing</small>

_____ <small>Location of Pole(s)</small>	_____ <small>Location of Appurtenances (Vents, Manholes, Valves, etc.)</small>	_____ <small>Location-Others</small>
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Terms & Conditions: Installation and method of said facilities on highway right of way shall be subject to the following terms & conditions; and the installation & maintenance provisions, attached hereto and made a part hereof.

- A. Installation of said facility shall be done in a manner satisfactory to the Mercer County Road Superintendent.
- B. Applicant shall notify the Mercer County Road Superintendent 48 hours prior to maintaining, relocating, or removal of said facilities. All disturbed areas shall be restored to their original condition in a manner satisfactory to the Mercer County Road Superintendent.
- C. Mercer County shall not be liable for damage to said facilities resulting from reconstruction or maintenance of the highway. Applicant shall hold Mercer County and any of its employees harmless for injury to persons or damage to property resulting from the location of said facilities on highway right of way.
- D. Applicant shall repair or replace highway structures and appurtenances, and any existing facilities located on, over, or under highway right of way, which may be damaged as a result of the installation & maintenance of said facilities on highway right of way.
- E. Applicant shall remove said facilities from highway right of way or shall relocate or adjust said facilities at its sole cost & expense when they are requested to do so by Mercer County, which shall be completed as soon thereafter as is practicable.
- F. Containment of Weeds until permanent grass has been established.
- G. Additional installation & maintenance requirements are as follows (if applicable):

H. Installation shall be completed on or before _____
2/11/16 [Signature]
Date Vice President, Land and Right of Way Applicant Signature

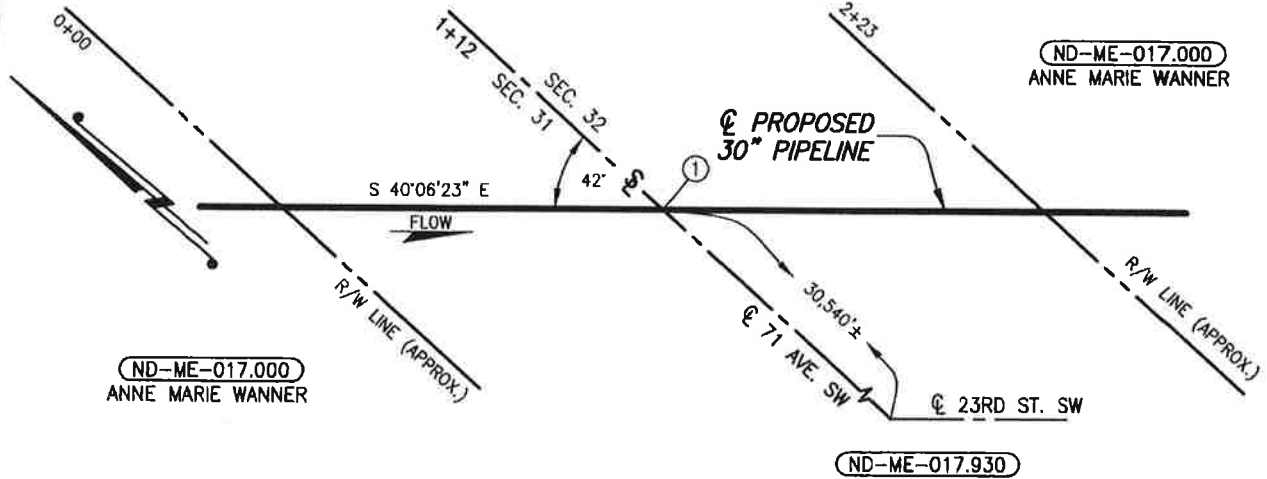
Applicant is hereby granted permission to install & maintain the facilities applied for, as shown on the plans attached hereto & made a part hereof.

Approved by Mercer County Board of Commissioners/Road Superintendent this 06 day of April 2016
[Signature] [Signature]
Road Superintendent Chairman, Mercer County Commission

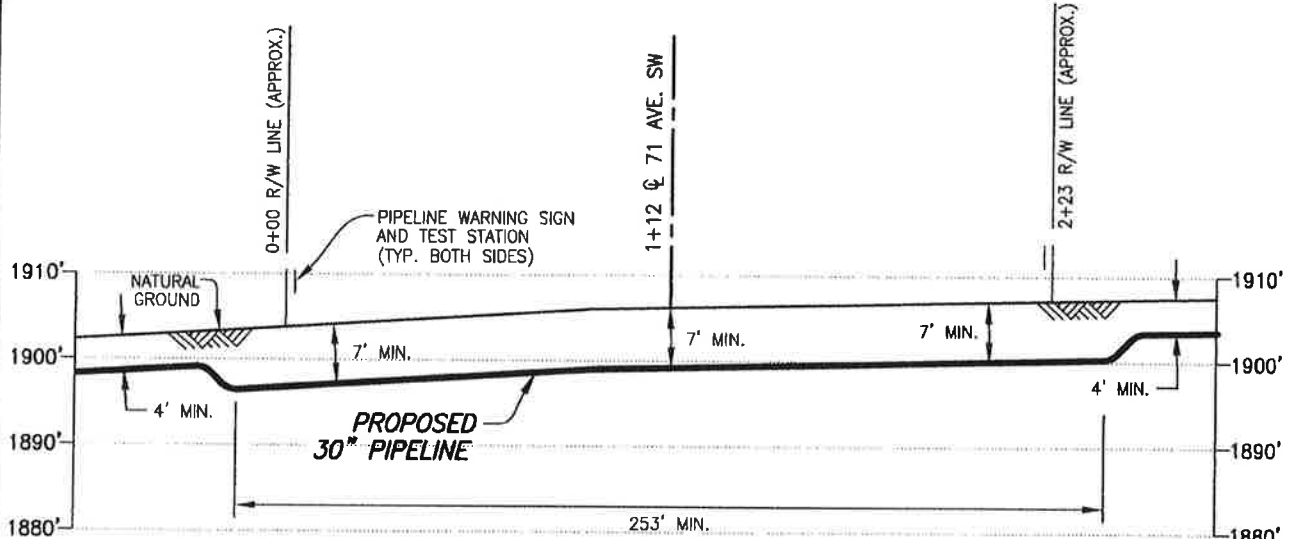
RD-me-017930 71 Ave SW

MERCER COUNTY, NORTH DAKOTA

SECTIONS 31 & 32, TOWNSHIP 143 NORTH, RANGE 89 WEST



PLAN
SCALE: 1"=50'



PROFILE
SCALE: 1"=50' HORIZ.
1"=20' VERT.

① X=895304.76
Y=17152100.77

DATUM:
ALL ELEVATIONS DERIVED FROM GPS OBSERVATIONS (GEOID 2012, NAVD 88) BEARINGS BASED ON UTM ZONE 14 NORTH AMERICAN DATUM 1983. U.S. SURVEY FEET

T.B.M.: ☉ 71 AVENUE SW
AT STA. 1+12, ELEV. 1906.20'

PIPE SPECIFICATIONS

PIPE 30" O.D. x 0.625" W.T.
API 5LX-70 HSAW
COATING: 14-16 MILS FBE
SERVICE: CRUDE OIL
INSTALLATION: OPEN CUT
MIN TEST PRESSURE: 1,800 PSIG
MOP: 1,440 PSIG
MIN. YIELD STRENGTH: 70,000 PSI

FILE: R:\Projects\103957\DISCIPLINE\CAD\DRAWINGS\93-PERMIT\NORTH DAKOTA\MERCER COUNTY\103957-P8-ND-ME-017.930.dwg PLOT DATE: 3/3/2016 BY: RICKS, STEVEN

A	03/02/18	MSM	ISSUED FOR USE/PERMIT	RC
REV.	DATE	BY	DESCRIPTION	CHK.
PROJECT NO.			10395700	
WOOD GROUP MUSTANG, INC. NORTH DAKOTA REGISTERED ENGINEERING FIRM 627C				

DAKOTA ACCESS, LLC

**PROPOSED 30" DAPL PIPELINE CROSSING
71 AVENUE SW**

MERCER COUNTY		NORTH DAKOTA	
DRAWN BY: MSM	DATE: 03/03/16	DWG. NO.	REV.
CHECKED BY: RC	DATE: 03/04/16	ND-ME-017.930	A
SCALE: AS SHOWN	APP.:		